


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER FEDERAL 9-7D-64				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BERRY PETROLEUM COMPANY						7. OPERATOR PHONE 303 999-4044				
8. ADDRESS OF OPERATOR 4000 South 4028 West Rt 2 Box 7735, Roosevelt, UT, 84066						9. OPERATOR E-MAIL kao@bry.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU8894A			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2380 FNL 1971 FEL		SWNE	7	6.0 S	4.0 W	U		
Top of Uppermost Producing Zone		2060 FSL 826 FEL		NESE	7	6.0 S	4.0 W	U		
At Total Depth		1980 FSL 660 FEL		NESE	7	6.0 S	4.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1971			23. NUMBER OF ACRES IN DRILLING UNIT 1280				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 20			26. PROPOSED DEPTH MD: 6158 TVD: 5862				
27. ELEVATION - GROUND LEVEL 7408			28. BOND NUMBER UTB000035			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-12400				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 350	24.0	J-55 ST&C	9.5	Class G	225	1.15	15.8
Prod	7.875	5.5	0 - 6158	15.5	J-55 LT&C	9.5	Type V	200	3.82	11.0
							Class G	340	1.7	13.1
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Kathy K. Fieldsted				TITLE Sr. Regulatory & Permitting Tech.				PHONE 435 722-1325		
SIGNATURE				DATE 12/19/2012				EMAIL kkf@bry.com		
API NUMBER ASSIGNED 43013519350000				APPROVAL  Permit Manager						

BERRY PETROLEUM COMPANY
FEDERAL 9-7D-64
SW ¼, NE ¼, 2380' FNL 1971' FEL, Sec. 7, T6S, R4W, U.S.B. & M.
BHL: NE ¼ SE ¼, 1980 FSL, 660 FEL
Duchesne County, Utah

ONSHORE ORDER NO. 1

DRILLING PROGRAM

A,B Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

FORMATION	DRILL DEPTH * @ SHL (TVD)	DRILL DEPTH* @ BHL (TVD)	Measured Depth
Uinta Fm	Surface	Surface	
Green River	1,313'	1,306'	1,325'
Green River Upper Marker	1,863'	1,856'	1,919'
Mahogany	2,453'	2,446'	2,569'
Tgr3	3,495'	3,478'	3,716'
*Douglas Creek	4,207'	4,184'	4,469'
Black Shale	4,804'	4,782'	5,080'
*Castle Peak	5,148'	5,130'	5,427'
*Uteland Butte	5,585'	5,569'	5,865'
*Wasatch	5,778'	5,762'	6,058'
TD	5,878'	5,862'	6,158'
Base of Moderate Saline Water	1,737'	1,752'	

*PROSPECTIVE PAY

Berry is locating the well at the proposed surface location and directionally drilling to the proposed bottom hole location. By drilling directionally, Berry Petroleum Company will improve field development efficiency by potentially combining multiple surface hole locations together. This will significantly reduce total surface disturbance plus combine the use of access roads and existing pipelines. Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore.

Berry Petroleum Company
FEDERAL 9-7D-64

Drilling Program
Duchesne County, UT

C Pressure Control Equipment : (Schematic Attached)

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. A 3M system will be utilized. The attached diagram depicts the use of an annular in conjunction with double rams. However, an annular, double rams or both may be used depending on the drilling rig contracted.

Chart recorders will be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a representative upon request.

Mud volumes will be monitored visually.
Upper and Lower Kelly cocks will be utilized.
A gas buster will be utilized, if necessary.

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 350'	No Pressure Control
350' – 6158'	11" 3000# Ram Type BOP 11" 3000# Annular BOP

D,E Proposed Casing and Cementing Program

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Type</u>	<u>Connection</u>	<u>Weight</u>
Surface	350'	12.25"	8.625"	J-55	ST&C	24#
Production	6158'	7.875"	5.50"	J-55	LT&C	15.5#

<u>Surface</u>	<u>Type & Amount</u>
0' – 350'	Approximately 225 SX Premium Plus (Class G) + additives or a similar slurry with a minimum weight of 15.8 #/gal and approximate yield of 1.15 cuft/sx, minimum 24 hr compressive strength = 500 psi (Cement will be circulated to surface and topped off, if necessary.)
<u>Production</u>	<u>Type & Amount</u>
0' – 3500'	Lead: +/- 200 SX Premium Type V + additives or similar slurry with a minimum weight of 11.0 #/gal and approximate yield of 3.82 cuft/sx
3500' – 6158'	Tail: +/- 340 SX Premium Lite Tail + additives or similar slurry with a minimum weight of 13.1 #/gal and approximate yield of 1.70cuft/sk.

For production casing, actual cement volumes will be determined from the caliper log plus a minimum of 15% excess.

Berry Petroleum Company
FEDERAL 9-7D-64

Drilling Program
Duchesne County, UT

F Drilling Fluids Program

Interval	Weight	Viscosity	Fluid Loss	Remarks
0' – 350'	8.4 – 9.5	27	NC	DAP Mud
350'-6158'	8.4 – 9.5	27	NC	DAP Water

G Evaluation Program

Logging Program: HRI-GR-SP with SDL-DSN-PE: surface casing to TD.
Preserve samples from all show intervals.

Sampling: 10' dry cut samples: Douglas Creek to TD. Preserve samples
From all show intervals.

Surveys: As deemed necessary

Mud Logger: As deemed necessary

Drill Stem Tests: As deemed necessary

Cores: As deemed necessary

H Anticipated Abnormal Pressures or Temperatures

No abnormal temperatures or pressures or other hazards are anticipated.

Shallow gas and/or water flows are possible below surface casing.

Maximum anticipated bottom hole pressure equals approximately 2896 psi* and maximum anticipated surface pressure equals approximately 1606**psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

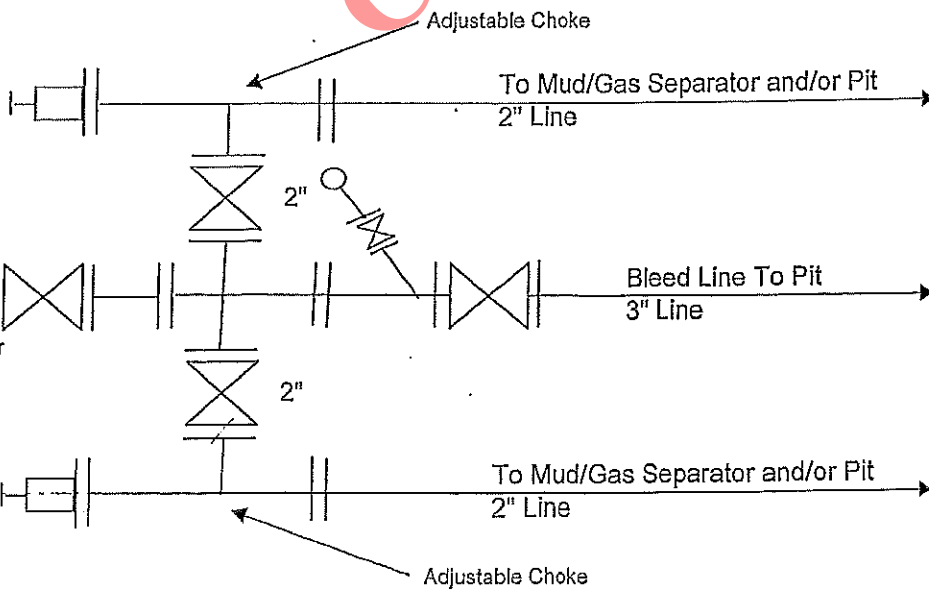
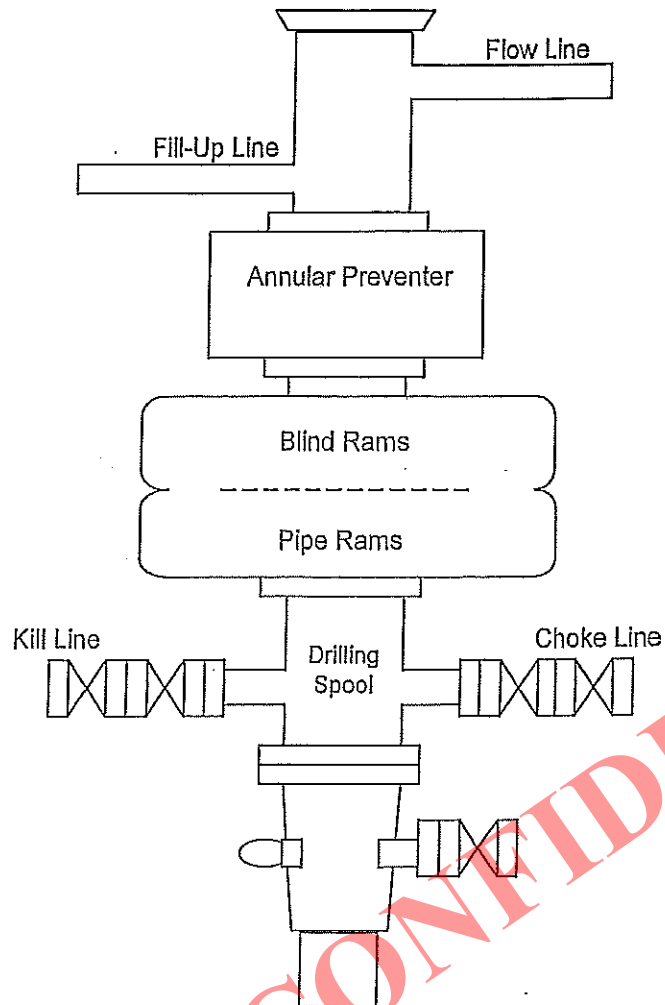
**Maximum surface pressure = A – (0.22xTD)

I Anticipated Starting Dates and Notification of Operations

Drilling Activity:

Anticipated Commencement Date:	Upon approval of the APD.
Drilling Days:	Approximately 10 days.
Completion Days:	Approximately 7 days.

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK



T6S, R4W, U.S.B.&M.

BERRY PETROLEUM COMPANY

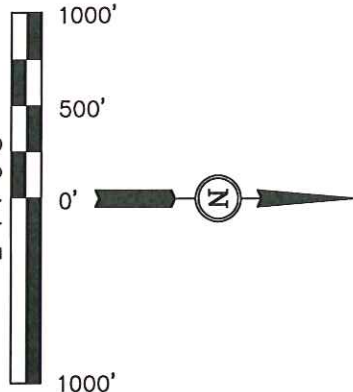
Well location, FEDERAL #9-7D-64, located as shown in the SW 1/4 NE 1/4 of Section 7, T6S, R4W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

DATE 09-08-12

UTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'
DATE SURVEYED: 09-05-12
DATE DRAWN: 09-25-12

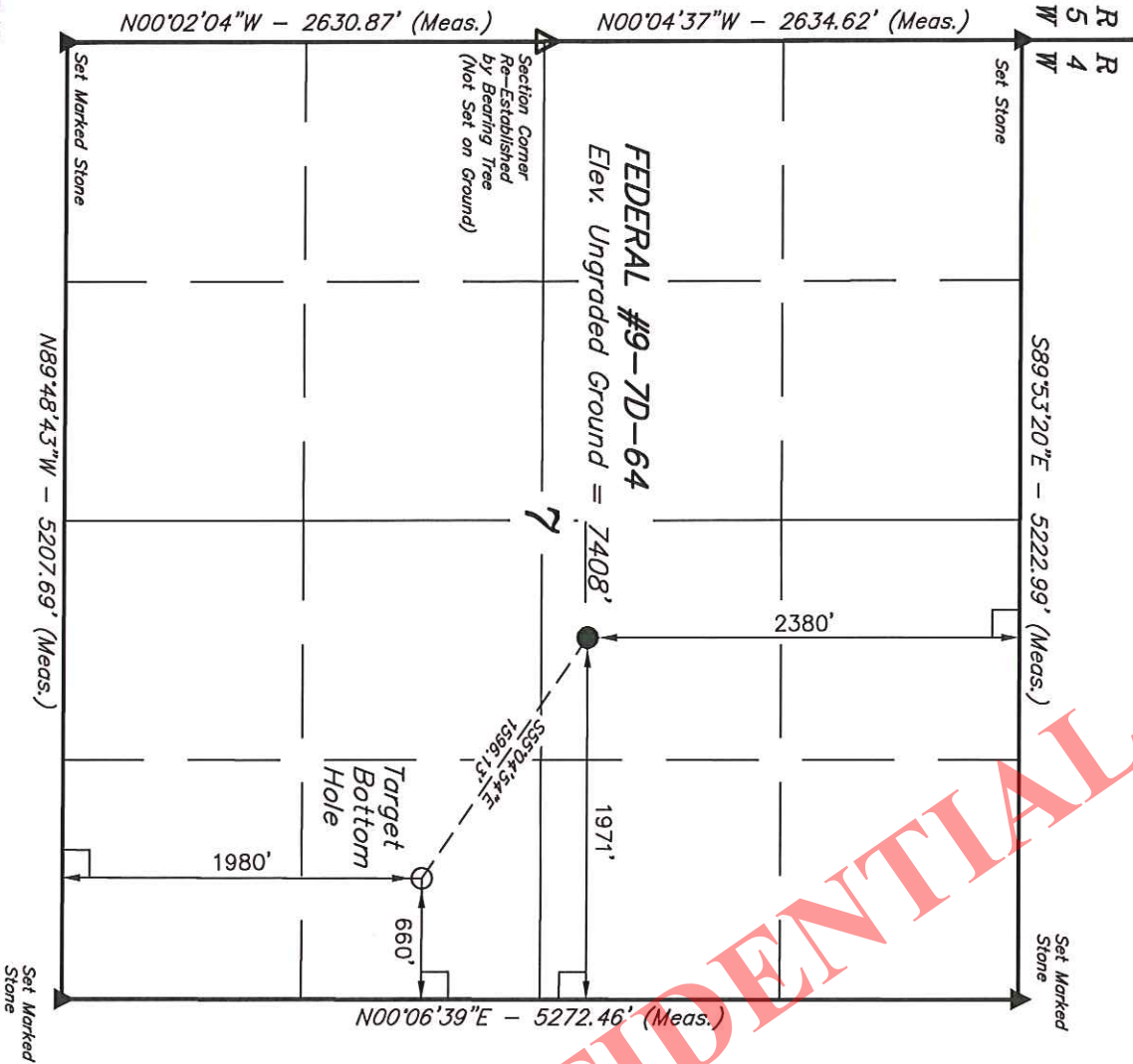
PARTY G.O. T.G. Z.L.
REFERENCES G.L.O. PLAT

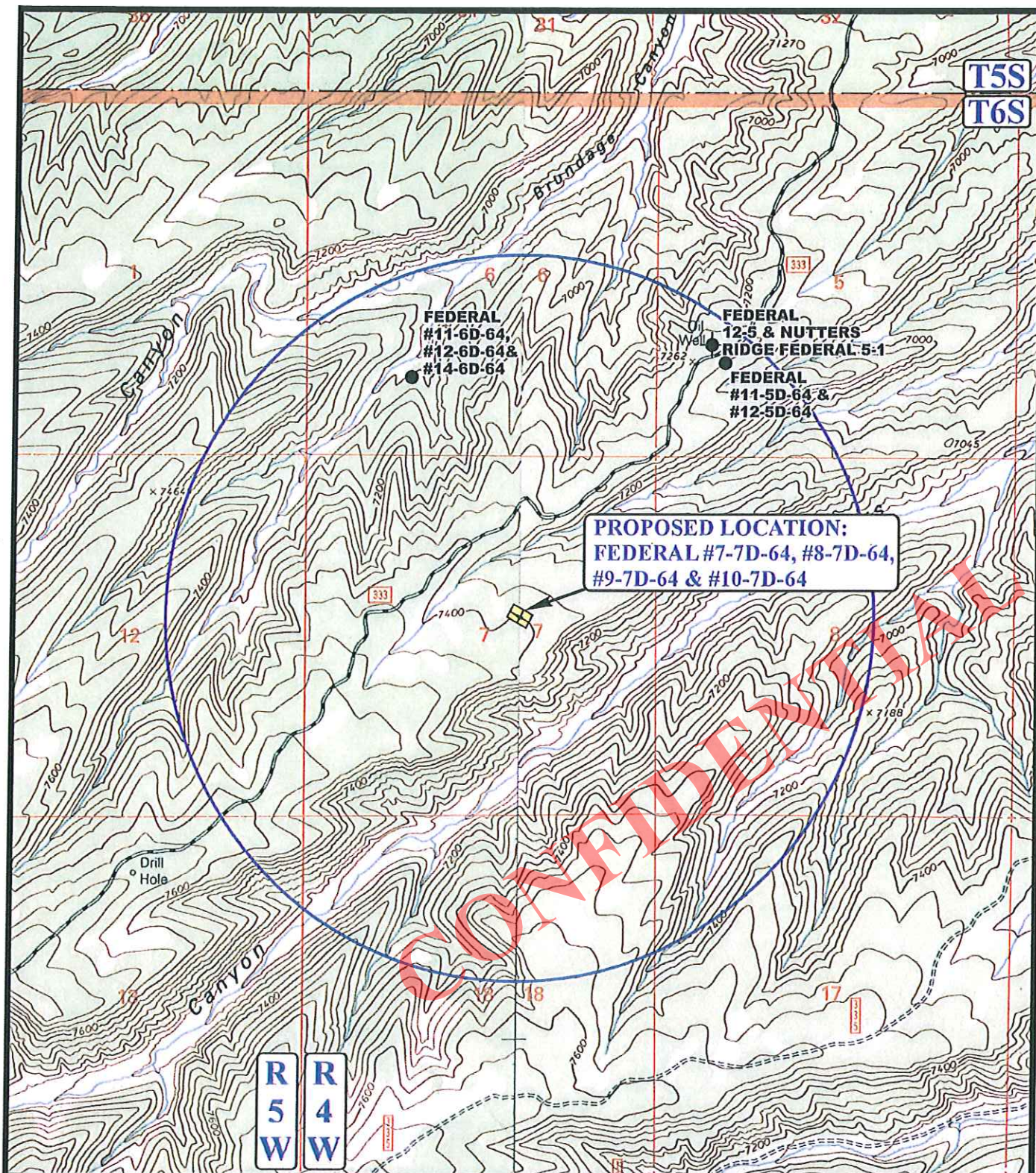
WEATHER HOT
FILE BERRY PETROLEUM COMPANY

LEGEND:

- 90° SYMBOL
- SECTION CORNERS
- SECTION CORNERS LOCATED.
- PROPOSED WELL HEAD.
- RE-ESTABLISHED.
- (Not Set on Ground.)

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 39°56'21.05"	(39.972514)	LATITUDE = 39°58'30.07"	(39.975019)
LONGITUDE = 110°22'14.92"	(110.370811)	LONGITUDE = 110°22'31.73"	(110.375481)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 39°56'21.19"	(39.972553)	LATITUDE = 39°58'30.21"	(39.975056)
LONGITUDE = 110°22'12.37"	(110.370103)	LONGITUDE = 110°22'29.18"	(110.374772)



**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ ABANDONED WELLS
- TEMPORARILY ABANDONED

BERRY PETROLEUM COMPANY

FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

08 24 09
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: L.K.

REV: 11-02-12 C.I.



Well Planning Proposal FOR

**Berry Petroleum Co.
Federal 9-7D-64
Duchesne Co., UT**

Well File: Design #1 (12/3/12)

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner





Project: Duchesne Co., UT (UT27C)
 Site: Sec.7-T6S-R4W
 Well: Federal 9-7D-64
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39° 58' 30.209 N
 Longitude: 110° 22' 29.179 W
 Ground Level: 7408.00
 WELL @ 7428.00usft



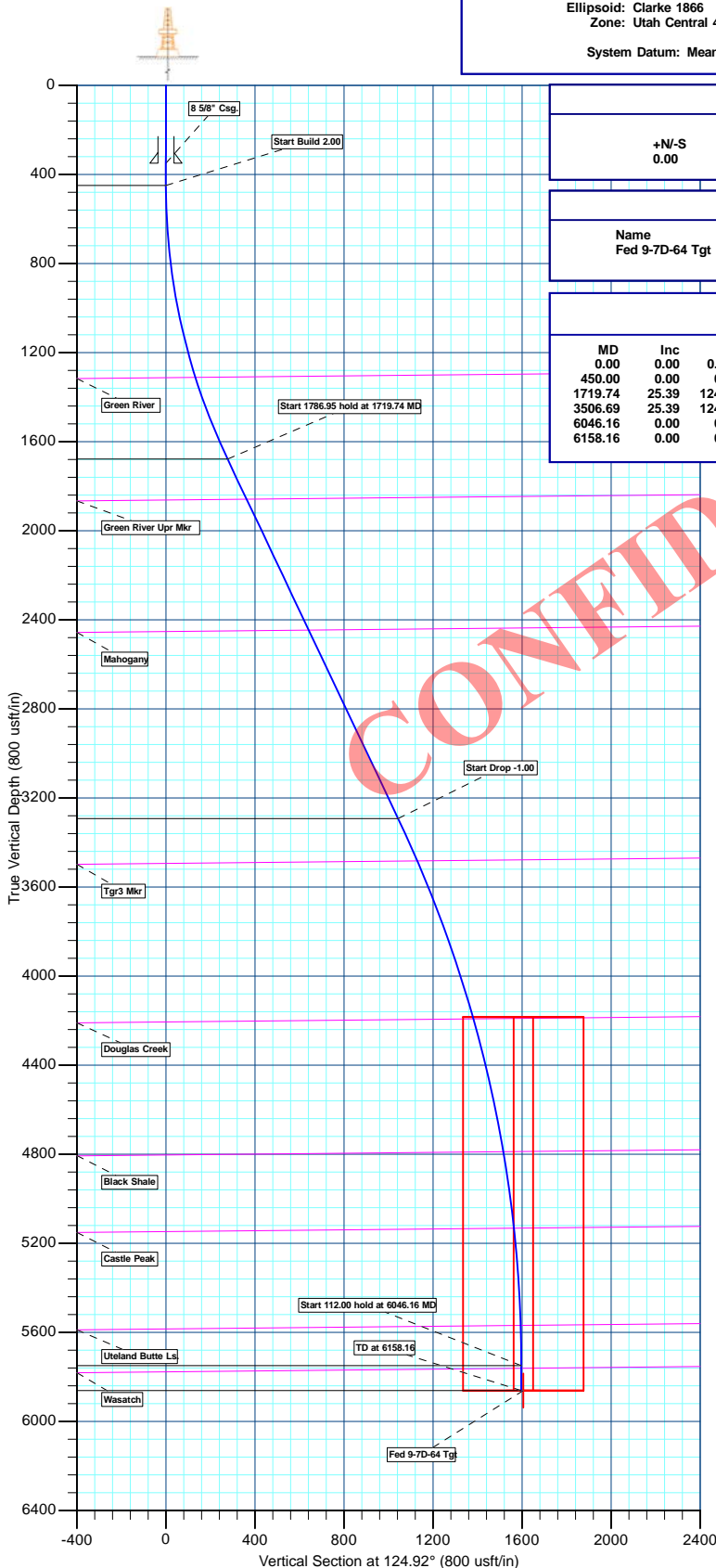
PROJECT DETAILS: Duchesne Co., UT (UT27C)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302

System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 9-7D-64, True North
 Vertical (TVD) Reference: WELL @ 7428.00usft
 Section (VSD) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 7428.00usft
 Calculation Method: Minimum Curvature



WELL DETAILS: Federal 9-7D-64

+N/-S	+E/-W	North	Ground Level:	Latitude	Longitude	Slot
0.00	0.00	599943.796	7408.00	39° 58' 30.209 N	110° 22' 29.179 W	
		2315330.928				

DESIGN TARGET DETAILS

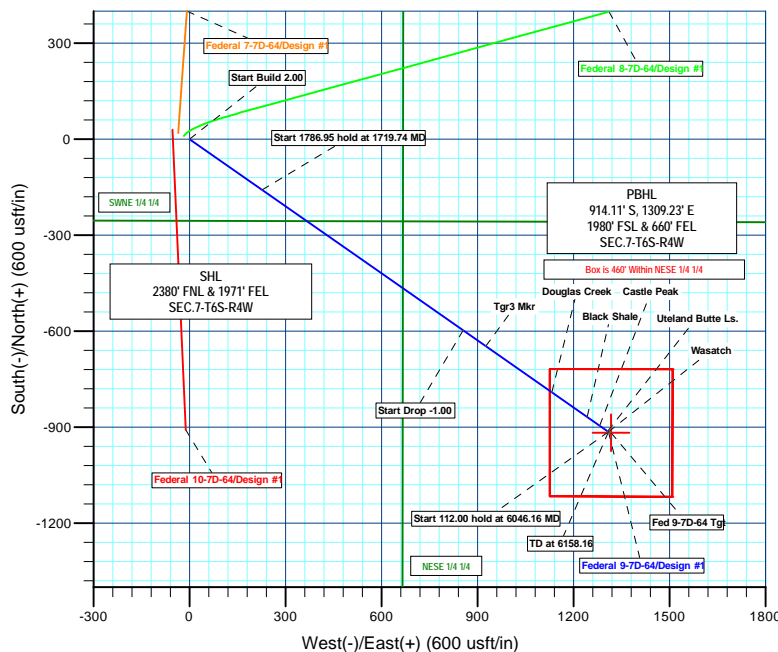
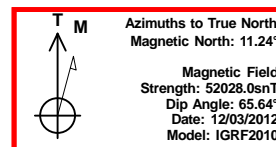
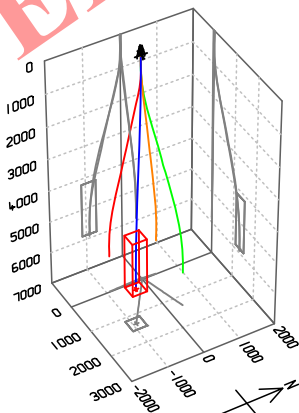
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Fed 9-7D-64 Tgt	5862.00	-917.47	1317.55	39° 58' 21.140 N	110° 22' 12.255 W	Polygon

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1719.74	25.39	124.92	1678.57	-158.47	226.96	2.00	124.92	276.81	Start 1786.95 hold at 1719.74 MD
3506.69	25.39	124.92	3292.86	-597.18	855.30	0.00	0.00	1043.15	Start Drop -1.00
6046.16	0.00	0.00	5750.00	-914.11	1309.23	1.00	180.00	1596.77	Start 112.00 hold at 6046.16 MD
6158.16	0.00	0.00	5862.00	-914.11	1309.23	0.00	0.00	1596.77	TD at 6158.16

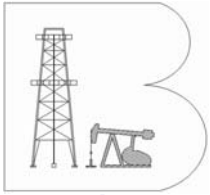
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1311.68	1325.23	Green River
1859.39	1919.90	Green River Up Mkr
2446.62	2569.94	Mahogany
3483.76	3716.24	Tgr3 Mkr
4193.26	4469.60	Douglas Creek
4788.92	5080.52	Black Shale
5132.45	5427.41	Castle Peak
5569.14	5865.28	Uteland Butte Ls.
5762.11	6058.28	Wasatch



Created By: Bret Wolford Date: 14:00, December 03 2012

RECEIVED: December 19, 2012



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.7-T6S-R4W

Federal 9-7D-64

Wellbore #1

Plan: Design #1

Standard Planning Report

03 December, 2012





Sharewell Energy Services

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Federal 9-7D-64
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7428.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7428.00usft
Site:	Sec.7-T6S-R4W	North Reference:	True
Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Duchesne Co., UT (UT27C)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site		Sec.7-T6S-R4W			
Site Position:		Northing:	598,358.739 usft	Latitude:	39° 58' 14.851 N
From:	Lat/Long	Easting:	2,312,850.173 usft	Longitude:	110° 23' 1.298 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.72 °

Well	Federal 9-7D-64					
Well Position	+N/-S	1,553.97 usft	Northing:	599,943.796 usft	Latitude:	39° 58' 30.209 N
	+E/-W	2,500.34 usft	Easting:	2,315,330.928 usft	Longitude:	110° 22' 29.179 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	7,408.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/03/12	11.24	65.64	52,028

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	124.92

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,719.74	25.39	124.92	1,678.57	-158.47	226.96	2.00	2.00	0.00	124.92	
3,506.69	25.39	124.92	3,292.86	-597.18	855.30	0.00	0.00	0.00	0.00	
6,046.16	0.00	0.00	5,750.00	-914.11	1,309.23	1.00	-1.00	0.00	180.00	
6,158.16	0.00	0.00	5,862.00	-914.11	1,309.23	0.00	0.00	0.00	0.00	



Database: EDM 5000.1 Single User Db
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Site: Sec.7-T6S-R4W
Well: Federal 9-7D-64
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Federal 9-7D-64
TVD Reference: WELL @ 7428.00usft
MD Reference: WELL @ 7428.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8" Csg.									
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.00	124.92	500.00	-0.25	0.36	0.44	2.00	2.00	0.00
600.00	3.00	124.92	599.93	-2.25	3.22	3.93	2.00	2.00	0.00
700.00	5.00	124.92	699.68	-6.24	8.94	10.90	2.00	2.00	0.00
800.00	7.00	124.92	799.13	-12.22	17.51	21.35	2.00	2.00	0.00
900.00	9.00	124.92	898.15	-20.19	28.92	35.27	2.00	2.00	0.00
1,000.00	11.00	124.92	996.63	-30.13	43.16	52.63	2.00	2.00	0.00
1,100.00	13.00	124.92	1,094.44	-42.03	60.20	73.42	2.00	2.00	0.00
1,200.00	15.00	124.92	1,191.46	-55.88	80.04	97.62	2.00	2.00	0.00
1,300.00	17.00	124.92	1,287.58	-71.66	102.64	125.18	2.00	2.00	0.00
Green River									
1,325.23	17.50	124.92	1,311.68	-75.94	108.77	132.66	2.00	2.00	0.00
1,400.00	19.00	124.92	1,382.68	-89.35	127.97	156.08	2.00	2.00	0.00
1,500.00	21.00	124.92	1,476.65	-108.93	156.01	190.28	2.00	2.00	0.00
1,600.00	23.00	124.92	1,569.36	-130.37	186.73	227.74	2.00	2.00	0.00
1,700.00	25.00	124.92	1,660.71	-153.66	220.07	268.41	2.00	2.00	0.00
Start 1786.95 hold at 1719.74 MD									
1,719.74	25.39	124.92	1,678.57	-158.47	226.96	276.81	2.00	2.00	0.00
1,800.00	25.39	124.92	1,751.08	-178.17	255.19	311.23	0.00	0.00	0.00
1,900.00	25.39	124.92	1,841.42	-202.72	290.35	354.12	0.00	0.00	0.00
Green River Upr Mkr									
1,919.90	25.39	124.92	1,859.39	-207.61	297.35	362.65	0.00	0.00	0.00
2,000.00	25.39	124.92	1,931.75	-227.27	325.51	397.00	0.00	0.00	0.00
2,100.00	25.39	124.92	2,022.09	-251.82	360.67	439.89	0.00	0.00	0.00
2,200.00	25.39	124.92	2,112.43	-276.37	395.84	482.77	0.00	0.00	0.00
2,300.00	25.39	124.92	2,202.77	-300.93	431.00	525.66	0.00	0.00	0.00
2,400.00	25.39	124.92	2,293.10	-325.48	466.16	568.54	0.00	0.00	0.00
2,500.00	25.39	124.92	2,383.44	-350.03	501.32	611.43	0.00	0.00	0.00
Mahogany									
2,569.94	25.39	124.92	2,446.62	-367.20	525.92	641.42	0.00	0.00	0.00
2,600.00	25.39	124.92	2,473.78	-374.58	536.49	654.31	0.00	0.00	0.00
2,700.00	25.39	124.92	2,564.12	-399.13	571.65	697.20	0.00	0.00	0.00
2,800.00	25.39	124.92	2,654.45	-423.68	606.81	740.08	0.00	0.00	0.00
2,900.00	25.39	124.92	2,744.79	-448.23	641.97	782.97	0.00	0.00	0.00
3,000.00	25.39	124.92	2,835.13	-472.78	677.14	825.85	0.00	0.00	0.00
3,100.00	25.39	124.92	2,925.47	-497.33	712.30	868.74	0.00	0.00	0.00
3,200.00	25.39	124.92	3,015.80	-521.88	747.46	911.63	0.00	0.00	0.00
3,300.00	25.39	124.92	3,106.14	-546.43	782.63	954.51	0.00	0.00	0.00
3,400.00	25.39	124.92	3,196.48	-570.98	817.79	997.40	0.00	0.00	0.00
Start Drop -1.00									
3,506.69	25.39	124.92	3,292.86	-597.18	855.30	1,043.15	0.00	0.00	0.00
3,600.00	24.46	124.92	3,377.48	-619.69	887.55	1,082.48	1.00	-1.00	0.00
3,700.00	23.46	124.92	3,468.86	-642.94	920.85	1,123.09	1.00	-1.00	0.00
Tgr3 Mkr									
3,716.24	23.30	124.92	3,483.76	-646.63	926.13	1,129.53	1.00	-1.00	0.00



Sharewell Energy Services

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Federal 9-7D-64
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7428.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7428.00usft
Site:	Sec.7-T6S-R4W	North Reference:	True
Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	22.46	124.92	3,560.93	-665.27	952.83	1,162.10	1.00	-1.00	0.00
3,900.00	21.46	124.92	3,653.67	-686.68	983.50	1,199.50	1.00	-1.00	0.00
4,000.00	20.46	124.92	3,747.05	-707.16	1,012.83	1,235.27	1.00	-1.00	0.00
4,100.00	19.46	124.92	3,841.05	-726.70	1,040.82	1,269.41	1.00	-1.00	0.00
4,200.00	18.46	124.92	3,935.62	-745.31	1,067.46	1,301.90	1.00	-1.00	0.00
4,300.00	17.46	124.92	4,030.74	-762.96	1,092.75	1,332.74	1.00	-1.00	0.00
4,400.00	16.46	124.92	4,126.39	-779.66	1,116.67	1,361.91	1.00	-1.00	0.00
Douglas Creek									
4,469.60	15.77	124.92	4,193.26	-790.72	1,132.50	1,381.23	1.00	-1.00	0.00
4,500.00	15.46	124.92	4,222.53	-795.40	1,139.21	1,389.41	1.00	-1.00	0.00
4,600.00	14.46	124.92	4,319.14	-810.18	1,160.38	1,415.23	1.00	-1.00	0.00
4,700.00	13.46	124.92	4,416.19	-823.99	1,180.16	1,439.36	1.00	-1.00	0.00
4,800.00	12.46	124.92	4,513.64	-836.83	1,198.55	1,461.79	1.00	-1.00	0.00
4,900.00	11.46	124.92	4,611.47	-848.70	1,215.55	1,482.51	1.00	-1.00	0.00
5,000.00	10.46	124.92	4,709.64	-859.59	1,231.14	1,501.53	1.00	-1.00	0.00
Black Shale									
5,080.52	9.66	124.92	4,788.92	-867.64	1,242.67	1,515.59	1.00	-1.00	0.00
5,100.00	9.46	124.92	4,808.13	-869.49	1,245.32	1,518.83	1.00	-1.00	0.00
5,200.00	8.46	124.92	4,906.91	-878.41	1,258.09	1,534.40	1.00	-1.00	0.00
5,300.00	7.46	124.92	5,005.94	-886.33	1,269.45	1,548.25	1.00	-1.00	0.00
5,400.00	6.46	124.92	5,105.21	-893.27	1,279.39	1,560.37	1.00	-1.00	0.00
Castle Peak									
5,427.41	6.19	124.92	5,132.45	-895.00	1,281.86	1,563.39	1.00	-1.00	0.00
5,500.00	5.46	124.92	5,204.66	-899.22	1,287.90	1,570.76	1.00	-1.00	0.00
5,600.00	4.46	124.92	5,304.29	-904.17	1,294.99	1,579.41	1.00	-1.00	0.00
5,700.00	3.46	124.92	5,404.05	-908.13	1,300.66	1,586.32	1.00	-1.00	0.00
5,800.00	2.46	124.92	5,503.91	-911.08	1,304.89	1,591.48	1.00	-1.00	0.00
Uteland Butte Ls.									
5,865.28	1.81	124.92	5,569.14	-912.48	1,306.89	1,593.92	1.00	-1.00	0.00
5,900.00	1.46	124.92	5,603.85	-913.04	1,307.70	1,594.91	1.00	-1.00	0.00
6,000.00	0.46	124.92	5,703.84	-914.00	1,309.08	1,596.59	1.00	-1.00	0.00
Start 112.00 hold at 6046.16 MD									
6,046.16	0.00	0.00	5,750.00	-914.11	1,309.23	1,596.77	1.00	-1.00	0.00
Wasatch									
6,058.28	0.00	0.00	5,762.11	-914.11	1,309.23	1,596.77	0.00	0.00	0.00
6,100.00	0.00	0.00	5,803.84	-914.11	1,309.23	1,596.77	0.00	0.00	0.00
TD at 6158.16 - Fed 9-7D-64 Tgt									
6,158.16	0.00	0.00	5,862.00	-914.11	1,309.23	1,596.77	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Fed 9-7D-64 Tgt	0.00	0.00	5,862.00	-917.47	1,317.55	599,042.973	2,316,659.916	39° 58' 21.140 N	110° 22' 12.255 W
- plan misses target center by 8.97usft at 6158.16usft MD (5862.00 TVD, -914.11 N, 1309.23 E)									
- Polygon									
Point 1			5,862.00	199.30	-191.40	599,239.85	2,316,466.02		
Point 2			5,862.00	198.50	192.10	599,243.87	2,316,849.50		
Point 3			5,862.00	-199.40	191.30	598,846.00	2,316,853.71		
Point 4			5,862.00	-198.40	-191.90	598,842.17	2,316,470.53		



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Federal 9-7D-64
Company:	Berry Petroleum Company	TVD Reference:	WELL @ 7428.00usft
Project:	Duchesne Co., UT (UT27C)	MD Reference:	WELL @ 7428.00usft
Site:	Sec.7-T6S-R4W	North Reference:	True
Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Casing Points

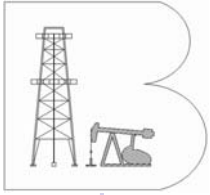
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
350.00	350.00	8 5/8" Csg.	8-5/8	11

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,325.23	1,313.00	Green River		-0.57	124.92
1,919.90	1,863.00	Green River Up'r Mkr		-0.57	124.92
2,569.94	2,453.00	Mahogany		-0.57	124.92
3,716.24	3,495.00	Tgr3 Mkr		-0.57	124.92
4,469.60	4,207.00	Douglas Creek		-0.57	124.92
5,080.52	4,804.00	Black Shale		-0.57	124.92
5,427.41	5,148.00	Castle Peak		-0.57	124.92
5,865.28	5,585.00	Uteland Butte Ls.		-0.57	124.92
6,058.28	5,778.00	Wasatch		-0.57	124.92

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
450.00	450.00	0.00	0.00	Start Build 2.00
1,719.74	1,678.57	-158.47	226.96	Start 1786.95 hold at 1719.74 MD
3,506.69	3,292.86	-597.18	855.30	Start Drop -1.00
6,046.16	5,750.00	-914.11	1,309.23	Start 112.00 hold at 6046.16 MD
6,158.16	5,862.00	-914.11	1,309.23	TD at 6158.16



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.7-T6S-R4W

Federal 9-7D-64

Wellbore #1

Design #1

Anticollision Report

03 December, 2012





Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/03/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	6,158.16	Design #1 (Wellbore #1)	MWD	MWD - Standard	

Summary							
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
Offset Well - Wellbore - Design							
Sec.7-T6S-R4W							
Federal 10-7D-64 - Wellbore #1 - Design #1	450.00	450.00	60.63	58.88	34.582	CC, ES	
Federal 10-7D-64 - Wellbore #1 - Design #1	1,000.00	1,002.14	94.05	89.76	21.912	SF	
Federal 7-7D-64 - Wellbore #1 - Design #1	450.00	450.00	40.00	38.24	22.814	CC, ES	
Federal 7-7D-64 - Wellbore #1 - Design #1	600.00	598.82	45.71	43.32	19.132	SF	
Federal 8-7D-64 - Wellbore #1 - Design #1	450.00	450.00	20.63	18.88	11.767	CC, ES	
Federal 8-7D-64 - Wellbore #1 - Design #1	600.00	600.12	23.86	21.48	10.026	SF	

Offset Design	Sec.7-T6S-R4W - Federal 10-7D-64 - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft
Survey Program:	0-MWD										Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Distance	Minimum Separation	Separation Factor	Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	0.00	0.00	0.00	0.00	-60.88	29.50	-52.97	60.63			
100.00	100.00	100.00	100.00	0.09	0.09	-60.88	29.50	-52.97	60.63	60.45	0.18	337.178
200.00	200.00	200.00	200.00	0.31	0.31	-60.88	29.50	-52.97	60.63	60.00	0.63	96.337
300.00	300.00	300.00	300.00	0.54	0.54	-60.88	29.50	-52.97	60.63	59.55	1.08	56.196
400.00	400.00	400.00	400.00	0.76	0.76	-60.88	29.50	-52.97	60.63	59.10	1.53	39.668
450.00	450.00	450.00	450.00	0.88	0.88	-60.88	29.50	-52.97	60.63	58.88	1.75	34.582 CC, ES
500.00	500.00	500.56	500.56	0.98	0.98	173.88	29.06	-52.95	60.83	58.88	1.95	31.128
600.00	599.93	601.60	601.53	1.17	1.16	171.43	25.50	-52.79	62.53	60.19	2.33	26.830
700.00	699.68	702.42	702.10	1.39	1.37	166.93	18.40	-52.48	66.22	63.48	2.74	24.168
800.00	799.13	802.88	801.99	1.63	1.61	161.12	7.82	-52.01	72.41	69.22	3.19	22.691
900.00	898.15	902.83	900.95	1.92	1.89	154.83	-6.18	-51.40	81.58	77.88	3.70	22.036
1,000.00	996.63	1,002.14	998.73	2.25	2.21	148.79	-23.49	-50.64	94.05	89.76	4.29	21.912 SF
1,100.00	1,094.44	1,100.68	1,095.10	2.63	2.58	143.39	-44.00	-49.74	109.96	104.98	4.98	22.095
1,200.00	1,191.46	1,198.52	1,190.44	3.08	2.99	139.55	-65.96	-48.77	129.21	123.47	5.74	22.517
1,300.00	1,287.58	1,295.95	1,285.38	3.60	3.42	137.50	-87.83	-47.81	151.33	144.78	6.55	23.109
1,400.00	1,382.68	1,392.84	1,379.79	4.18	3.85	136.67	-109.57	-46.86	176.02	168.62	7.40	23.788
1,500.00	1,476.65	1,489.08	1,473.57	4.84	4.29	136.61	-131.17	-45.91	203.17	194.89	8.28	24.525
1,600.00	1,569.36	1,584.53	1,566.59	5.57	4.73	137.05	-152.59	-44.97	232.78	223.58	9.20	25.314
1,700.00	1,660.71	1,679.10	1,658.74	6.38	5.17	137.80	-173.82	-44.04	264.89	254.76	10.13	26.155
1,719.74	1,678.57	1,697.65	1,676.82	6.55	5.25	137.97	-177.98	-43.86	271.53	261.21	10.31	26.328
1,800.00	1,751.08	1,773.01	1,750.24	7.25	5.60	138.96	-194.89	-43.11	298.77	287.68	11.09	26.932

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Sec.7-T6S-R4W - Federal 10-7D-64 - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program: 0-MWD													Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
1,900.00	1,841.42	1,866.89	1,841.73	8.12	6.04	139.97	-215.96	-42.19	332.80	320.73	12.07	27.572						
2,000.00	1,931.75	1,960.78	1,933.21	9.01	6.49	140.80	-237.03	-41.26	366.91	353.86	13.05	28.111						
2,100.00	2,022.09	2,054.66	2,024.70	9.90	6.93	141.48	-258.10	-40.34	401.07	387.03	14.04	28.571						
2,200.00	2,112.43	2,148.55	2,116.19	10.80	7.37	142.06	-279.17	-39.41	435.28	420.25	15.03	28.968						
2,300.00	2,202.77	2,242.43	2,207.67	11.71	7.82	142.55	-300.24	-38.49	469.51	453.50	16.02	29.314						
2,400.00	2,293.10	2,336.32	2,299.16	12.61	8.26	142.98	-321.31	-37.56	503.78	486.77	17.01	29.618						
2,500.00	2,383.44	2,430.20	2,390.64	13.52	8.71	143.35	-342.38	-36.64	538.07	520.06	18.00	29.887						
2,600.00	2,473.78	2,524.09	2,482.13	14.43	9.16	143.68	-363.46	-35.71	572.37	553.37	19.00	30.127						
2,700.00	2,564.12	2,617.97	2,573.61	15.34	9.61	143.97	-384.53	-34.79	606.69	586.69	20.00	30.341						
2,800.00	2,654.45	2,711.86	2,665.10	16.25	10.05	144.23	-405.60	-33.86	641.02	620.03	20.99	30.535						
2,900.00	2,744.79	2,805.74	2,756.58	17.16	10.50	144.46	-426.67	-32.94	675.36	653.37	21.99	30.710						
3,000.00	2,835.13	2,899.63	2,848.07	18.08	10.95	144.67	-447.74	-32.01	709.71	686.72	22.99	30.870						
3,100.00	2,925.47	2,993.51	2,939.55	18.99	11.40	144.86	-468.81	-31.09	744.07	720.08	23.99	31.015						
3,200.00	3,015.80	3,087.40	3,031.04	19.91	11.85	145.03	-489.88	-30.16	778.43	753.44	24.99	31.149						
3,300.00	3,106.14	3,181.28	3,122.52	20.83	12.30	145.19	-510.95	-29.24	812.80	786.81	25.99	31.271						
3,400.00	3,196.48	3,275.17	3,214.01	21.74	12.75	145.34	-532.02	-28.31	847.18	820.18	26.99	31.385						
3,506.69	3,292.86	3,375.33	3,311.61	22.72	13.23	145.48	-554.50	-27.33	883.86	855.80	28.06	31.496						
3,600.00	3,377.48	3,463.16	3,397.19	23.48	13.65	145.76	-574.21	-26.46	915.35	886.39	28.96	31.603						
3,700.00	3,468.86	3,557.75	3,489.37	24.19	14.11	145.98	-595.44	-25.53	947.79	917.91	29.88	31.718						
3,800.00	3,560.93	3,652.80	3,581.99	24.87	14.56	146.13	-616.77	-24.59	978.85	948.05	30.80	31.776						
3,900.00	3,653.67	3,748.27	3,675.02	25.53	15.02	146.21	-638.20	-23.65	1,008.54	976.81	31.73	31.784						
4,000.00	3,747.05	3,844.15	3,768.45	26.16	15.48	146.23	-659.72	-22.71	1,036.84	1,004.18	32.66	31.747						
4,100.00	3,841.05	3,940.40	3,862.24	26.78	15.94	146.20	-681.32	-21.76	1,063.76	1,030.17	33.59	31.669						
4,200.00	3,935.62	4,037.00	3,956.37	27.36	16.41	146.11	-702.99	-20.81	1,089.29	1,054.77	34.52	31.556						
4,300.00	4,030.74	4,133.90	4,050.80	27.92	16.87	145.98	-724.74	-19.85	1,113.43	1,077.99	35.45	31.411						
4,400.00	4,126.39	4,231.09	4,145.50	28.45	17.34	145.80	-746.55	-18.89	1,136.20	1,099.83	36.37	31.237						
4,500.00	4,222.54	4,328.14	4,240.09	28.95	17.79	145.57	-768.27	-17.94	1,157.60	1,120.33	37.27	31.058						
4,600.00	4,319.14	4,424.58	4,334.34	29.42	18.15	145.37	-788.66	-17.04	1,177.72	1,139.65	38.07	30.935						
4,700.00	4,416.19	4,521.40	4,429.30	29.87	18.46	145.20	-807.54	-16.22	1,196.56	1,157.78	38.78	30.856						
4,800.00	4,513.64	4,618.57	4,524.90	30.28	18.74	145.07	-824.87	-15.45	1,214.12	1,174.67	39.44	30.781						
4,900.00	4,611.47	4,716.05	4,621.10	30.67	19.02	144.96	-840.63	-14.76	1,230.37	1,190.31	40.07	30.709						
5,000.00	4,709.64	4,813.82	4,717.83	31.03	19.28	144.89	-854.79	-14.14	1,245.31	1,204.67	40.64	30.640						
5,100.00	4,808.13	4,911.84	4,815.04	31.37	19.52	144.84	-867.33	-13.59	1,258.93	1,217.76	41.17	30.575						
5,200.00	4,906.91	5,010.08	4,912.67	31.67	19.74	144.81	-878.22	-13.11	1,271.22	1,229.56	41.66	30.514						
5,300.00	5,005.94	5,108.51	5,010.67	31.95	19.95	144.81	-887.46	-12.71	1,282.16	1,240.07	42.10	30.457						
5,400.00	5,105.21	5,207.10	5,108.96	32.20	20.14	144.84	-895.03	-12.37	1,291.77	1,249.28	42.49	30.403						
5,500.00	5,204.66	5,305.80	5,207.49	32.42	20.31	144.89	-900.91	-12.12	1,300.02	1,257.19	42.83	30.353						
5,600.00	5,304.29	5,404.60	5,306.20	32.62	20.46	144.96	-905.10	-11.93	1,306.93	1,263.80	43.13	30.305						
5,700.00	5,404.05	5,503.44	5,405.01	32.79	20.59	145.05	-907.59	-11.82	1,312.48	1,269.11	43.37	30.261						
5,800.00	5,503.91	5,602.35	5,503.91	32.94	20.71	145.17	-908.38	-11.79	1,316.69	1,273.10	43.58	30.211						
5,900.00	5,603.85	5,702.29	5,603.85	33.06	20.82	145.27	-908.38	-11.79	1,319.50	1,275.74	43.76	30.153						
6,000.00	5,703.84	5,802.28	5,703.84	33.16	20.92	145.32	-908.38	-11.79	1,320.88	1,276.94	43.93	30.066						
6,046.16	5,750.00	5,848.44	5,750.00	33.19	20.97	-89.75	-908.38	-11.79	1,321.03	1,277.02	44.01	30.015						
6,100.00	5,803.84	5,902.27	5,803.84	33.23	21.03	-89.75	-908.38	-11.79	1,321.03	1,276.90	44.13	29.936						
6,121.98	5,825.81	5,924.25	5,825.81	33.25	21.06	-89.75	-908.38	-11.79	1,321.03	1,276.86	44.18	29.904						
6,158.16	5,862.00	5,933.44	5,835.00	33.28	21.07	-89.75	-908.38	-11.79	1,321.31	1,277.08	44.22	29.878						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-61.14	19.30	-35.03	40.00					
100.00	100.00	100.00	100.00	0.09	0.09	-61.14	19.30	-35.03	40.00	39.82	0.18	222.441		
200.00	200.00	200.00	200.00	0.31	0.31	-61.14	19.30	-35.03	40.00	39.37	0.63	63.555		
300.00	300.00	300.00	300.00	0.54	0.54	-61.14	19.30	-35.03	40.00	38.92	1.08	37.073		
400.00	400.00	400.00	400.00	0.76	0.76	-61.14	19.30	-35.03	40.00	38.47	1.53	26.170		
450.00	450.00	450.00	450.00	0.88	0.88	-61.14	19.30	-35.03	40.00	38.24	1.75	22.814 CC, ES		
500.00	500.00	499.70	499.69	0.98	0.99	174.55	19.73	-35.00	40.62	38.65	1.97	20.646		
600.00	599.93	598.82	598.75	1.17	1.22	178.86	23.16	-34.76	45.71	43.32	2.39	19.132 SF		
700.00	699.68	697.13	696.82	1.39	1.44	-174.96	29.93	-34.28	56.43	53.60	2.83	19.928		
800.00	799.13	795.49	794.78	1.63	1.68	-169.81	38.87	-33.66	72.44	69.15	3.29	22.030		
900.00	898.15	893.44	892.32	1.92	1.93	-166.97	47.81	-33.03	92.17	88.43	3.74	24.620		
1,000.00	996.63	990.69	989.16	2.25	2.18	-165.53	56.69	-32.41	115.34	111.13	4.21	27.428		
1,100.00	1,094.44	1,087.11	1,085.17	2.63	2.43	-164.88	65.49	-31.79	141.81	137.13	4.67	30.352		
1,200.00	1,191.46	1,182.59	1,180.25	3.08	2.69	-164.70	74.20	-31.18	171.51	166.37	5.14	33.337		
1,300.00	1,287.58	1,277.02	1,274.28	3.60	2.94	-164.77	82.82	-30.57	204.42	198.79	5.62	36.354		
1,400.00	1,382.68	1,370.26	1,367.14	4.18	3.19	-164.98	91.33	-29.97	240.49	234.38	6.11	39.387		
1,500.00	1,476.65	1,462.23	1,458.72	4.84	3.44	-165.27	99.73	-29.39	279.70	273.10	6.59	42.412		
1,600.00	1,569.36	1,552.79	1,548.90	5.57	3.69	-165.58	107.99	-28.81	322.01	314.93	7.09	45.441		
1,700.00	1,660.71	1,641.85	1,637.58	6.38	3.93	-165.90	116.12	-28.23	367.39	359.81	7.58	48.456		
1,719.74	1,678.57	1,659.24	1,654.90	6.55	3.98	-165.96	117.71	-28.12	376.70	369.02	7.68	49.049		
1,800.00	1,751.08	1,729.82	1,725.19	7.25	4.17	-166.38	124.15	-27.67	414.82	406.70	8.13	51.049		
1,900.00	1,841.42	1,817.76	1,812.76	8.12	4.41	-166.80	132.18	-27.11	462.34	453.65	8.69	53.217		
2,000.00	1,931.75	1,905.71	1,900.33	9.01	4.65	-167.15	140.21	-26.54	509.88	500.62	9.26	55.089		
2,100.00	2,022.09	1,993.65	1,987.91	9.90	4.89	-167.44	148.24	-25.98	557.42	547.59	9.83	56.720		
2,200.00	2,112.43	2,081.59	2,075.48	10.80	5.13	-167.68	156.26	-25.42	604.98	594.57	10.40	58.151		
2,300.00	2,202.77	2,169.54	2,163.06	11.71	5.37	-167.88	164.29	-24.85	652.54	641.55	10.98	59.416		
2,400.00	2,293.10	2,257.48	2,250.63	12.61	5.61	-168.06	172.32	-24.29	700.10	688.54	11.56	60.541		
2,500.00	2,383.44	2,345.42	2,338.20	13.52	5.86	-168.22	180.34	-23.73	747.68	735.53	12.15	61.547		
2,600.00	2,473.78	2,433.36	2,425.78	14.43	6.10	-168.35	188.37	-23.16	795.25	782.52	12.73	62.452		
2,700.00	2,564.12	2,521.31	2,513.35	15.34	6.34	-168.48	196.40	-22.60	842.83	829.51	13.32	63.269		
2,800.00	2,654.45	2,609.25	2,600.93	16.25	6.58	-168.58	204.43	-22.04	890.41	876.50	13.91	64.011		
2,900.00	2,744.79	2,697.19	2,688.50	17.16	6.82	-168.68	212.45	-21.47	937.99	923.49	14.50	64.686		
3,000.00	2,835.13	2,785.14	2,776.07	18.08	7.07	-168.77	220.48	-20.91	985.58	970.49	15.09	65.304		
3,100.00	2,925.47	2,873.08	2,863.65	18.99	7.31	-168.85	228.51	-20.35	1,033.17	1,017.48	15.68	65.870		
3,200.00	3,015.80	2,961.02	2,951.22	19.91	7.55	-168.92	236.54	-19.78	1,080.76	1,064.48	16.28	66.392		
3,300.00	3,106.14	3,048.96	3,038.79	20.83	7.79	-168.99	244.56	-19.22	1,128.35	1,111.47	16.87	66.874		
3,400.00	3,196.48	3,136.91	3,126.37	21.74	8.04	-169.05	252.59	-18.66	1,175.94	1,158.47	17.47	67.319		
3,506.69	3,292.86	3,230.73	3,219.80	22.72	8.30	-169.11	261.15	-18.05	1,226.71	1,208.61	18.10	67.760		
3,600.00	3,377.48	3,313.15	3,301.87	23.48	8.52	-169.25	268.68	-17.53	1,270.46	1,251.77	18.69	67.960		
3,700.00	3,468.86	3,402.23	3,390.58	24.19	8.77	-169.37	276.81	-16.96	1,315.88	1,296.57	19.31	68.156		
3,800.00	3,560.93	3,492.09	3,480.06	24.87	9.02	-169.47	285.01	-16.38	1,359.76	1,339.85	19.91	68.281		
3,900.00	3,653.67	3,582.68	3,570.28	25.53	9.27	-169.54	293.28	-15.80	1,402.10	1,381.58	20.52	68.344		
4,000.00	3,747.05	3,673.99	3,661.20	26.16	9.52	-169.61	301.61	-15.21	1,442.87	1,421.76	21.11	68.350		
4,100.00	3,841.05	3,765.98	3,752.81	26.78	9.77	-169.65	310.01	-14.62	1,482.07	1,460.37	21.70	68.307		
4,200.00	3,935.62	3,858.63	3,845.07	27.36	10.03	-169.68	318.47	-14.03	1,519.69	1,497.41	22.28	68.220		
4,300.00	4,030.74	3,951.91	3,937.95	27.92	10.29	-169.70	326.98	-13.43	1,555.71	1,532.86	22.85	68.094		
4,400.00	4,126.39	4,045.79	4,031.43	28.45	10.55	-169.70	335.55	-12.83	1,590.12	1,566.71	23.41	67.931		
4,500.00	4,222.54	4,140.23	4,125.49	28.95	10.81	-169.69	344.17	-12.23	1,622.92	1,598.96	23.96	67.736		
4,600.00	4,319.14	4,235.22	4,220.08	29.42	11.07	-169.67	352.84	-11.62	1,654.09	1,629.59	24.50	67.511		
4,700.00	4,416.19	4,330.73	4,315.18	29.87	11.34	-169.64	361.56	-11.01	1,683.64	1,658.60	25.03	67.258		
4,800.00	4,513.64	4,426.71	4,410.77	30.28	11.60	-169.59	370.32	-10.39	1,711.54	1,685.98	25.55	66.981		
4,900.00	4,611.47	4,530.94	4,514.57	30.67	11.87	-169.53	379.70	-9.73	1,737.72	1,711.66	26.06	66.677		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,709.64	4,652.59	4,635.87	31.03	12.12	-169.49	388.70	-9.10	1,761.21	1,734.66	26.54	66.351	
5,100.00	4,808.13	4,775.53	4,758.64	31.37	12.36	-169.49	395.18	-8.65	1,781.65	1,754.65	27.00	65.995	
5,200.00	4,906.91	4,899.56	4,882.61	31.67	12.58	-169.54	399.06	-8.37	1,799.01	1,771.59	27.42	65.610	
5,300.00	5,005.94	5,022.90	5,005.94	31.95	12.78	-169.64	400.25	-8.29	1,813.27	1,785.46	27.81	65.205	
5,400.00	5,105.21	5,122.16	5,105.21	32.20	12.95	-169.73	400.25	-8.29	1,825.19	1,797.03	28.16	64.809	
5,500.00	5,204.66	5,221.62	5,204.66	32.42	13.13	-169.81	400.25	-8.29	1,835.42	1,806.90	28.52	64.359	
5,600.00	5,304.29	5,321.25	5,304.29	32.62	13.32	-169.87	400.25	-8.29	1,843.93	1,815.07	28.86	63.890	
5,700.00	5,404.05	5,421.01	5,404.05	32.79	13.51	-169.92	400.25	-8.29	1,850.73	1,821.54	29.19	63.400	
5,800.00	5,503.91	5,520.87	5,503.91	32.94	13.70	-169.95	400.25	-8.29	1,855.82	1,826.31	29.51	62.891	
5,900.00	5,603.85	5,620.81	5,603.85	33.06	13.90	-169.98	400.25	-8.29	1,859.19	1,829.38	29.81	62.362	
6,000.00	5,703.84	5,720.80	5,703.84	33.16	14.09	-169.99	400.25	-8.29	1,860.84	1,830.74	30.10	61.813	
6,046.16	5,750.00	5,766.96	5,750.00	33.19	14.18	-45.07	400.25	-8.29	1,861.03	1,830.79	30.23	61.554	
6,100.00	5,803.84	5,820.79	5,803.84	33.23	14.28	-45.07	400.25	-8.29	1,861.03	1,830.60	30.42	61.176	
6,158.16	5,862.00	5,878.96	5,862.00	33.28	14.40	-45.07	400.25	-8.29	1,861.03	1,830.40	30.62	60.769	



Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-60.39	10.19	-17.94	20.63					
100.00	100.00	100.00	100.00	0.09	0.09	-60.39	10.19	-17.94	20.63	20.45	0.18	114.732		
200.00	200.00	200.00	200.00	0.31	0.31	-60.39	10.19	-17.94	20.63	20.00	0.63	32.781		
300.00	300.00	300.00	300.00	0.54	0.54	-60.39	10.19	-17.94	20.63	19.55	1.08	19.122		
400.00	400.00	400.00	400.00	0.76	0.76	-60.39	10.19	-17.94	20.63	19.10	1.53	13.498		
450.00	450.00	450.00	450.00	0.88	0.88	-60.39	10.19	-17.94	20.63	18.88	1.75	11.767 CC, ES		
500.00	500.00	500.09	500.09	0.98	0.99	175.95	10.50	-17.63	20.95	18.99	1.97	10.660		
600.00	599.93	600.12	600.05	1.17	1.21	-175.28	12.97	-15.16	23.86	21.48	2.38	10.026 SF		
700.00	699.68	699.69	699.38	1.39	1.44	-163.34	17.88	-10.25	30.82	28.00	2.82	10.931		
800.00	799.13	799.47	798.64	1.63	1.68	-153.33	24.24	-2.39	41.54	38.26	3.29	12.639		
900.00	898.15	898.88	897.17	1.92	1.95	-145.91	30.99	8.85	54.98	51.19	3.79	14.492		
1,000.00	996.63	997.84	994.79	2.25	2.26	-140.36	38.11	23.41	71.06	66.70	4.37	16.273		
1,100.00	1,094.44	1,096.26	1,091.30	2.63	2.61	-136.09	45.58	41.21	89.70	84.68	5.02	17.862		
1,200.00	1,191.46	1,194.08	1,186.52	3.08	3.01	-132.73	53.38	62.15	110.83	105.05	5.77	19.202		
1,300.00	1,287.58	1,291.21	1,280.29	3.60	3.47	-130.00	61.49	86.14	134.36	127.74	6.63	20.280		
1,400.00	1,382.68	1,387.59	1,372.45	4.18	3.98	-127.73	69.88	113.05	160.25	152.66	7.59	21.109		
1,500.00	1,476.65	1,483.16	1,462.86	4.84	4.55	-125.80	78.53	142.78	188.43	179.76	8.67	21.731		
1,600.00	1,569.36	1,578.14	1,551.79	5.57	5.17	-124.20	87.41	174.95	218.81	208.95	9.86	22.195		
1,700.00	1,660.71	1,672.77	1,640.23	6.38	5.82	-123.42	96.31	207.40	251.12	240.00	11.12	22.589		
1,719.74	1,678.57	1,691.37	1,657.61	6.55	5.95	-123.35	98.05	213.79	257.71	246.34	11.37	22.665		
1,800.00	1,751.08	1,766.97	1,728.27	7.25	6.47	-123.55	105.16	239.72	284.67	272.23	12.44	22.891		
1,900.00	1,841.42	1,861.15	1,816.29	8.12	7.13	-123.76	114.01	272.02	318.26	304.48	13.78	23.095		
2,000.00	1,931.75	1,955.34	1,904.32	9.01	7.80	-123.93	122.86	304.33	351.85	336.71	15.14	23.240		
2,100.00	2,022.09	2,049.52	1,992.35	9.90	8.48	-124.07	131.71	336.64	385.44	368.93	16.51	23.345		
2,200.00	2,112.43	2,143.71	2,080.37	10.80	9.15	-124.19	140.57	368.94	419.03	401.14	17.89	23.422		
2,300.00	2,202.77	2,237.89	2,168.40	11.71	9.83	-124.29	149.42	401.25	452.63	433.35	19.28	23.479		
2,400.00	2,293.10	2,332.08	2,256.43	12.61	10.52	-124.38	158.27	433.56	486.23	465.56	20.67	23.523		
2,500.00	2,383.44	2,426.26	2,344.45	13.52	11.20	-124.45	167.12	465.87	519.83	497.76	22.07	23.557		
2,600.00	2,473.78	2,520.45	2,432.48	14.43	11.89	-124.52	175.97	498.17	553.42	529.96	23.47	23.582		
2,700.00	2,564.12	2,614.63	2,520.51	15.34	12.58	-124.58	184.82	530.48	587.02	562.15	24.87	23.602		
2,800.00	2,654.45	2,708.82	2,608.53	16.25	13.26	-124.63	193.68	562.79	620.62	594.35	26.28	23.618		
2,900.00	2,744.79	2,803.00	2,696.56	17.16	13.95	-124.68	202.53	595.09	654.22	626.54	27.69	23.630		
3,000.00	2,835.13	2,897.19	2,784.59	18.08	14.64	-124.72	211.38	627.40	687.82	658.73	29.10	23.640		
3,100.00	2,925.47	2,991.37	2,872.61	18.99	15.34	-124.76	220.23	659.71	721.42	690.92	30.51	23.647		
3,200.00	3,015.80	3,085.56	2,960.64	19.91	16.03	-124.79	229.08	692.01	755.03	723.10	31.92	23.653		
3,300.00	3,106.14	3,179.74	3,048.67	20.83	16.72	-124.83	237.93	724.32	788.63	755.29	33.34	23.657		
3,400.00	3,196.48	3,273.93	3,136.69	21.74	17.41	-124.85	246.79	756.63	822.23	787.48	34.75	23.660		
3,506.69	3,292.86	3,374.41	3,230.61	22.72	18.15	-124.88	256.23	791.10	858.08	821.81	36.26	23.663		
3,600.00	3,377.48	3,462.44	3,312.88	23.48	18.80	-125.13	264.50	821.29	889.02	851.48	37.54	23.681		
3,700.00	3,468.86	3,557.08	3,401.34	24.19	19.50	-125.30	273.40	853.76	921.27	882.42	38.84	23.717		
3,800.00	3,560.93	3,652.01	3,490.06	24.87	20.20	-125.38	282.32	886.32	952.56	912.42	40.14	23.729		
3,900.00	3,653.67	3,747.19	3,579.02	25.53	20.90	-125.37	291.26	918.97	982.91	941.47	41.44	23.720		
4,000.00	3,747.05	3,842.86	3,668.43	26.16	21.60	-125.28	300.25	951.78	1,012.32	969.60	42.72	23.696		
4,100.00	3,841.05	3,942.56	3,761.96	26.78	22.22	-125.16	309.38	985.09	1,040.59	996.68	43.91	23.699		
4,200.00	3,935.62	4,042.89	3,856.66	27.36	22.78	-125.06	318.13	1,017.02	1,067.55	1,022.54	45.02	23.714		
4,300.00	4,030.74	4,143.83	3,952.51	27.92	23.32	-124.98	326.49	1,047.53	1,093.19	1,047.10	46.08	23.722		
4,400.00	4,126.39	4,245.35	4,049.46	28.45	23.84	-124.91	334.44	1,076.56	1,117.48	1,070.37	47.10	23.724		
4,500.00	4,222.54	4,347.42	4,147.47	28.95	24.34	-124.85	341.98	1,104.08	1,140.40	1,092.32	48.08	23.720		
4,600.00	4,319.14	4,450.02	4,246.48	29.42	24.81	-124.80	349.09	1,130.04	1,161.95	1,112.94	49.00	23.712		
4,700.00	4,416.19	4,553.12	4,346.44	29.87	25.27	-124.76	355.77	1,154.40	1,182.10	1,132.22	49.88	23.699		
4,800.00	4,513.64	4,656.70	4,447.29	30.28	25.69	-124.73	361.99	1,177.12	1,200.85	1,150.15	50.71	23.683		
4,900.00	4,611.47	4,760.71	4,548.99	30.67	26.09	-124.71	367.76	1,198.16	1,218.19	1,166.71	51.48	23.663		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,709.64	4,865.12	4,651.46	31.03	26.47	-124.70	373.05	1,217.49	1,234.09	1,181.89	52.20	23.641	
5,100.00	4,808.13	4,969.91	4,754.64	31.37	26.81	-124.69	377.87	1,235.08	1,248.55	1,195.68	52.87	23.615	
5,200.00	4,906.91	5,075.03	4,858.48	31.67	27.13	-124.69	382.20	1,250.89	1,261.56	1,208.07	53.49	23.586	
5,300.00	5,005.94	5,180.46	4,962.90	31.95	27.43	-124.69	386.04	1,264.90	1,273.11	1,219.06	54.05	23.554	
5,400.00	5,105.21	5,286.14	5,067.83	32.20	27.69	-124.70	389.38	1,277.08	1,283.20	1,228.64	54.56	23.518	
5,500.00	5,204.66	5,392.06	5,173.20	32.42	27.93	-124.71	392.21	1,287.41	1,291.81	1,236.79	55.02	23.479	
5,600.00	5,304.29	5,498.16	5,278.94	32.62	28.14	-124.73	394.53	1,295.87	1,298.95	1,243.52	55.42	23.437	
5,700.00	5,404.05	5,604.42	5,384.97	32.79	28.32	-124.75	396.33	1,302.46	1,304.60	1,248.82	55.78	23.390	
5,800.00	5,503.91	5,710.78	5,491.22	32.94	28.47	-124.78	397.62	1,307.14	1,308.76	1,252.69	56.07	23.340	
5,900.00	5,603.85	5,817.22	5,597.62	33.06	28.60	-124.81	398.38	1,309.93	1,311.44	1,255.12	56.32	23.285	
6,000.00	5,703.84	5,923.44	5,703.84	33.16	28.70	-124.85	398.62	1,310.81	1,312.63	1,256.11	56.52	23.223	
6,046.16	5,750.00	5,969.61	5,750.00	33.19	28.74	0.07	398.62	1,310.81	1,312.73	1,256.13	56.60	23.193	
6,100.00	5,803.84	6,023.44	5,803.84	33.23	28.79	0.07	398.62	1,310.81	1,312.73	1,256.04	56.70	23.154	
6,158.16	5,862.00	6,081.61	5,862.00	33.28	28.85	0.07	398.62	1,310.81	1,312.73	1,255.93	56.80	23.111	



Sharewell Energy Services

Anticollision Report



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Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7428.00usft

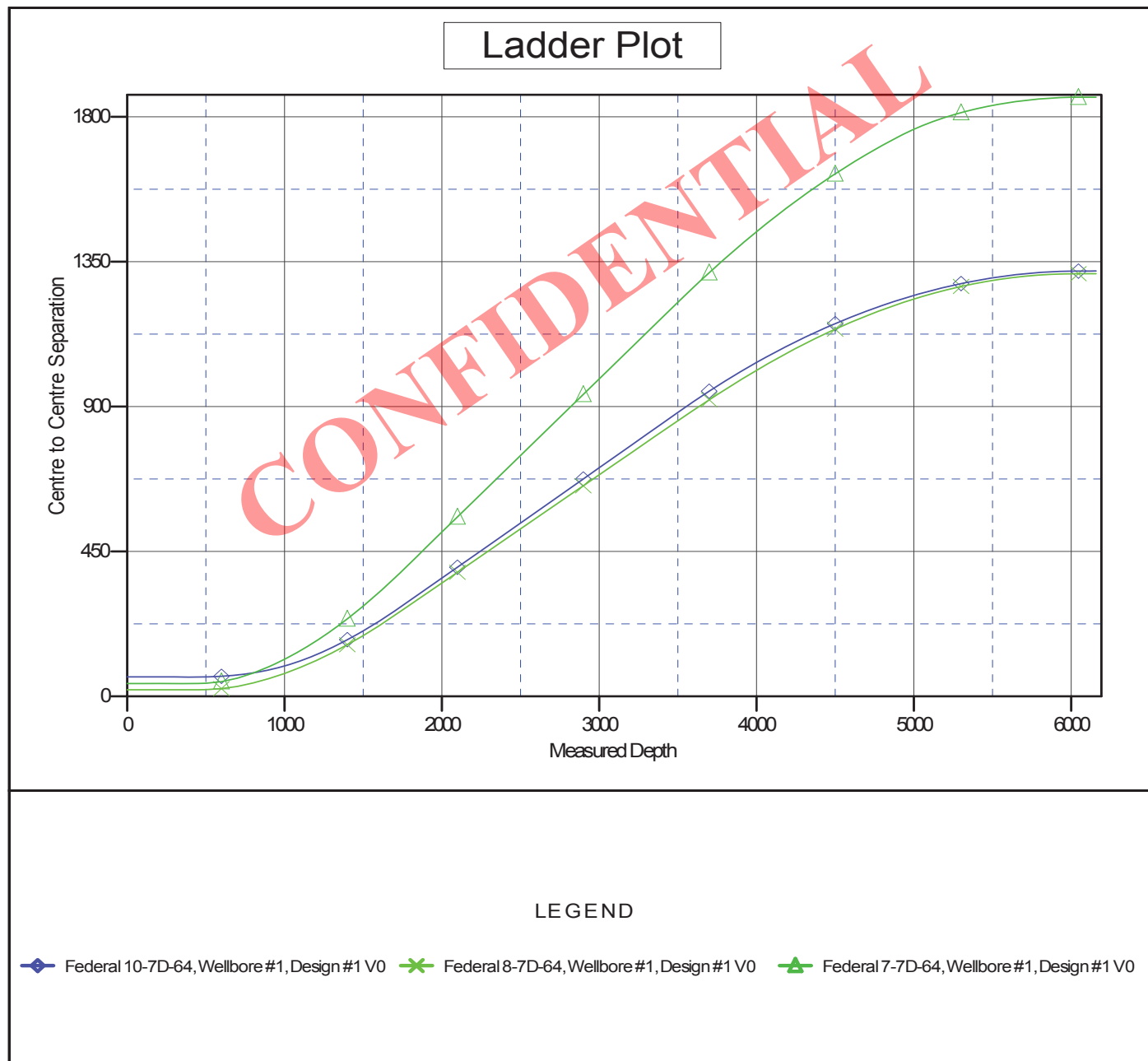
Offset Depths are relative to Offset Datum

Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Federal 9-7D-64

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302

Grid Convergence at Surface is: 0.72°





Sharewell Energy Services

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 7428.00usft

Offset Depths are relative to Offset Datum

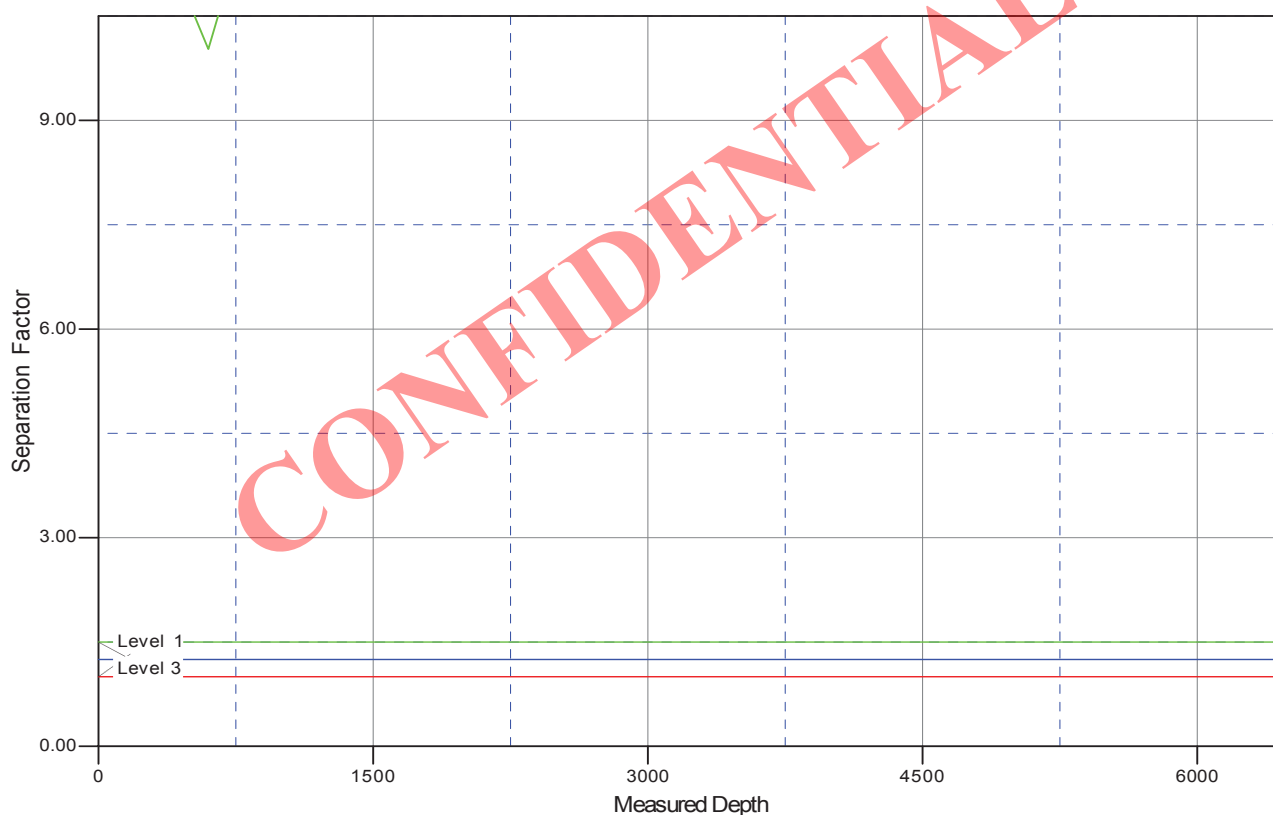
Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Federal 9-7D-64

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302

Grid Convergence at Surface is: 0.72°

Separation Factor Plot



LEGEND

◆ Federal 10-7D-64, Wellbore #1, Design #1 V0
 ✕ Federal 8-7D-64, Wellbore #1, Design #1 V0
 ▲ Federal 7-7D-64, Wellbore #1, Design #1 V0

BERRY PETROLEUM COMPANY
FEDERAL 9-7D-64
SW ¼, NE ¼, 2380' FNL 1971' FEL, Sec. 7, T6S, R4W, U.S.B.& M.
BHL: NE ¼ SE ¼, 1980 FSL, 660 FEL
Duchesne County, Utah

ONSHORE ORDER NO. 1

MULTI POINT SURFACE USE & OPERATIONS PLAN

A Existing Roads

To reach the Berry Petroleum Company well, Federal 9-7D-64, in Section 7-T6S-R4W:

Start in Myton, Utah. Proceed southwest on US Highway 40, 8.8 miles to the Antelope Creek/Sowers Canyon Road at the Bridgeland turnoff. Turn left and proceed in a southwesterly direction for approx. 6.3 miles to the junction of this road and the Sowers Canyon road. Turn right and proceed in a southwesterly direction approx. 1.8 miles to the junction of this road and the Nutters Ridge road, turn left and proceed in a southwesterly direction for approx. 9.2 miles to the beginning of the proposed access. Follow the proposed access 2465' to the 7-7D-64 location from which the 9-7D-64 will be drilled.

The existing oilfield service road may need some surface material to prevent or repair holes in the road due to heavy truck traffic during the drilling and completion operation. If repairs are made the operator will secure material from private sources.

Please see the attached map for additional details.

B New or Reconstructed Access Roads

See Topographic Map "B" for the location of the proposed access road.

On National Forest Service (NFS) lands, access roads will conform to standards outlined in the BLM and Forest Service publication, Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development "Gold Book" 4th Edition, 2007.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

New access roads will be crowned (2 to 3%), ditched, and constructed with a running surface of 22 feet and a maximum disturbed width of 35 feet. Graveling or capping the roadbed will be performed as necessary to provide a well-constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and shall be allowed to dry completely.

The disturbed width needed may be wider than 35 feet to accommodate larger equipment where deep cuts are required for road construction; intersections or sharp curves occur; or, as proposed by the operator. Approval will be required from the Forest Supervisor, Vernal, Utah.

Appropriate water control structures will be installed to control erosion.

Unless otherwise specified, the following specifications will apply:

The road grade in the Project Area will be 10% or less, wherever possible. The 10% grade would only be exceeded in areas where physical terrain or unusual circumstances require it. Turn-out areas will not be constructed unless they were deemed necessary for safety reasons.

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There will be no major cuts and fills, culverts, or bridges. If it becomes necessary to install a culvert at some time after approval of the APD, the operator will submit a Sundry Notice requesting approval of the USFS Authorized Officer.

The access road will be centerline flagged during time of staking.

There will be no gates, cattle guards, fence cuts, or modifications to existing facilities without prior consent of the FS.

Surfacing material may be necessary, depending upon weather conditions.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. Best efforts will be made such that all drainage ditches and culverts will be kept clear and free flowing and will be maintained according to the original construction standards. The access road ROW will be kept free of trash during operations. All traffic will be confined to the approved running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing, nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided. When snow is removed from the road during the winter months, the snow should be pushed outside the borrow ditches, and the cutouts kept clear so that snowmelt will be channeled away from the road.

C Location of Existing Wells

See Topographic Map "C" for the location of existing wells within a 1 mile radius.

D Location of Tank Batteries, Production Facilities and Production Gathering and Service Lines

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank. The site specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded with the Authorized Agency Officer's approval to meet SPCC requirements.

The proposed pipeline will tie in at the existing pipeline. Map "D" illustrating the proposed route is attached.

All site security guidelines identified in Federal regulation 43 CFR 3126.7, will be adhered to. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease production will have prior written approval from the Authorized Agency Officer.

Gas meter runs will be located approximately 100 feet from the wellhead. Where necessary, the gas line will be anchored down from the wellhead to the meter.

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Multi Point Surface Use & Operations Plan
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E Location and Type of Water Supply

Water for the drilling and completion will be pumped or trucked from one of the following Berry source wells:

- Water Permit # 43-12400, Sec. 23, T5S, R5W
- Water Permit # 43-12400, Sec. 24, T5S, R5W
- Water Permit # 43-1628, Sec. 12, T5S, R6W (Douglas E. & Yordis Nielsen)
- Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W
- East Duchesne Water, Arcadia Feedlot, Sec. 28, T3S, R3W
- Petroglyph Operating Company 08-04 Waterplant, Sec. 8, T5S, R3W.

F Source of Construction Materials

All construction materials for this location site and access road shall be borrow material accumulated during construction of the location site and access road.

Additional gravel or pit lining material will be obtained from a private source.

The use of materials under Authorized Agency jurisdiction will conform to 43 CFR 3610.2-3.

G Methods of Handling Waste Materials

Drill fluids will be contained in a closed loop system. Cuttings will be contained on site and buried in a pit or used on location or access roads whichever is deemed appropriate by the authorized agency.

After first production, produced wastewater from Berry Petroleum wells will be used for injection in our enhanced oil recovery project(s) in the Brundage Canyon field or they will be trucked to one of the following approved wastewater disposal sites:

- R.N. Industries, Inc. Sec. 4, T2S, R2W, Bluebell
- MC & MC Disposal Sec. 12, T6S, R19E, Vernal
- LaPoint Recycle & Storage Sec. 12, T5S, R19E, LaPoint
- Water Disposal Inc. Sec. 32, T1S, R1W, Roosevelt
- ITL 4461 W 3000 S Roosevelt Location Pleasant Valley
- IWM P O Box 430 Altamont or 20250 W 2000 S Duchesne Location-Blue Bench
- Pro Water 12223 Highland Ave Ste B503 Rancho Cucamonga CA 91739 Location-Blue Bench

Should operations of the field be prohibited by the Authorized Officer, the wastewater shall be confined to the approved pit or storage tank for a period not to exceed 90 days. The use of such pit is hereby approved as part of this Application for Permit to Drill.

Production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds. The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

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Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location promptly after removal of the completion rig (weather permitting).

Any open pits will be fenced during the operations. The fencing will be maintained with best efforts until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas.

H Ancillary Facilities

There are no ancillary facilities planned for at this time and none are foreseen in the future.

I Well site Layout

The attached Location Layout diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s).

J Plans for Restoration of the Surface

The dirt contractor will be provided with approved copies of the Surface Use Plan and these Standard Operating Procedures prior to construction activities.

Upon well completion, within 30 days the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

On lands administered by the Forest Service, abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

Prior to the construction of the location, the top 12 inches of soil material (if present) will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road, will be scarified and left with a rough surface.

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The Authorized Officer or the appropriate surface management agency shall be contacted for the required seed mixture. Seed will be broadcast and the amount of seed mixture per acre will be doubled. The seeded area will then be "walked" with a dozer to assure coverage of the seeds. The seed mixture will reflect the recommendation from the Archeology study done on the site specific APD.

At final abandonment, all casing shall be cut off at the base of the cellar or 3 feet below final restored ground level, whichever is deeper, and cap the casing with a metal plate a minimum of 0.25 inches thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap also will be constructed with a weep hole.

K Well Surface Ownership:

United States Forest Service

L Other information

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities. A list of noxious weeds may be obtained from the Forest Service, BLM, or the appropriate County Extension Office. On NFS administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on National Forest Service-administered lands after the conclusion of drilling operations or at any other time without authorization by the NFS. If authorization is obtained, such storage is only a temporary measure.

Travel is restricted only to approved travel routes.

Unless previously conducted, a class III archaeological survey will be conducted on all Forest Service lands. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

Within five working days, the Authorized Officer will inform the operator as to:

Whether the materials appear eligible for the National Historic Register of Historic Places;

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Multi Point Surface Use & Operations Plan
Duchesne County, UT

The mitigation measures the operator will likely have to undertake before the site can be used (assuming in-situ preservation is not necessary); and, The time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that the mitigation measures are appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer and/or the surface owner will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the operator will be responsible for mitigation costs. The Authorized Officer and/or the surface owner will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

On surface administered by the NFS, all surface use will be conducted in accordance with the STIPULATION FOR LANDS OF THE NATIONAL FOREST SYSTEM UNDER JURISDICTION OF THE DEPARTMENT OF AGRICULTURE, including:

If the surface is owned by another entity (FEE OWNER) and the mineral rights are owned by the BLM, a right-of-way will be obtained from the other entity.

Operator's employees, including subcontractors, will not gather firewood along roads constructed by the operator.

All roads constructed by the operator will have appropriate signs. Signs will be neat and of sound construction. The sign will state: (a) that the land is located within the Ashley National Forest boundary (b) the name of the Operator (c) that firearms are prohibited (d) only authorized personnel are permitted.

All well site locations will have appropriate signs indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section; the section, township, and range).



Berry Petroleum Company

Rt 2 Box 7735
4000 S. 4028 W
Roosevelt, Utah 84066
Phone (435) 722-1325
Fax (435) 722-1321

December 18, 2012

State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84115-5801

RE: Directional Drilling R649-3-11
Federal 9-7D-64 2380' FNL 1971' FEL (SWNE – surface)
1980' FSL 660' FEL (NESE – bottomhole)
Section 7, T6S-R4W
Duchesne County, Utah

Pursuant to the filing of Berry Petroleum's Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Federal 9-7D-64 well is to be located within the Brundage Canyon Field Area.
- Berry is locating the well at the surface location and directionally drilling from this location to minimize surface disturbance and Berry will be able to utilize the existing road and pipelines in the area.
- Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore and the remainder of the section.

Therefore, based on the above stated information Berry Petroleum Company requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Kathy K. Fieldsted
Sr. Regulatory & Permitting Technician

SELF-CERTIFICATION STATEMENT

The following self-certification statement is provided per federal requirements dated May 7, 2007.

Please be advised that Berry Petroleum Company is considered to be the operator of the following well.

FEDERAL 9-7D-64

SW ¼, NE ¼, 2380' FNL 1971' FEL, Sec. 7, T6S, R4W, U.S.B.& M.

BHL: NE ¼ SE ¼, 1980 FSL, 660 FEL

Lease: UTU-8894A

Duchesne, County, Utah

Berry Petroleum Company is responsible under the terms of the lease for the operations conducted upon the lease lands.

Operator's Representative and Certification

A) Representative

NAME: Kathy K. Fieldsted

ADDRESS: Berry Petroleum Company
4000 South 4028 West
Route 2, Box 7735
Roosevelt, Utah 84066

PHONE: 435-722-1325

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations and onshore oil and gas orders. Berry Petroleum Company is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The drilling permit will be valid for a period of two years from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by Berry Petroleum Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

12/18/2012
DATE

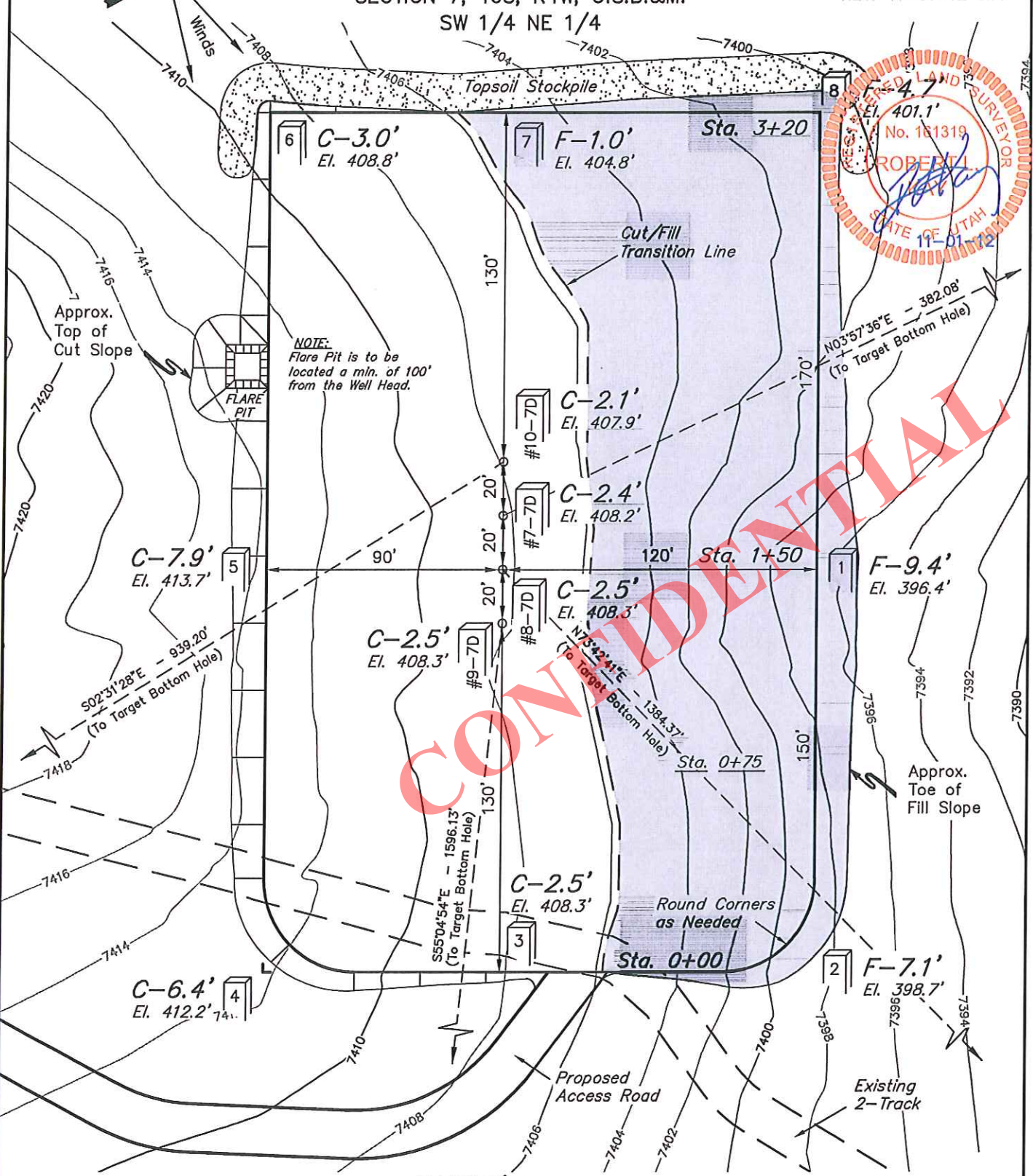
Kathy K. Fieldsted
Kathy K. Fieldsted
Sr. Regulatory & Permitting Tech
Berry Petroleum Company

BERRY PETROLEUM COMPANY**LOCATION LAYOUT FOR**

FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4

FIGURE #1

SCALE: 1" = 50'
DATE: 09-26-12
DRAWN BY: Z.L.
REV: 11-01-12 S.F.



Elev. Ungraded Ground At #8-7D Loc. Stake = 7408.3'
FINISHED GRADE ELEV. AT #8-7D LOC. STAKE = 7405.8'

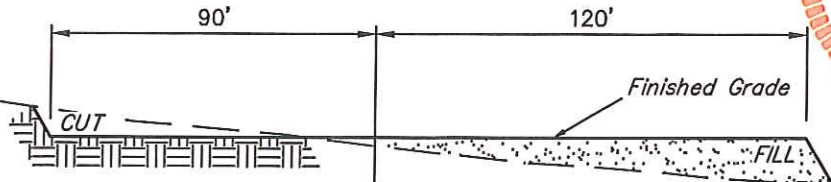
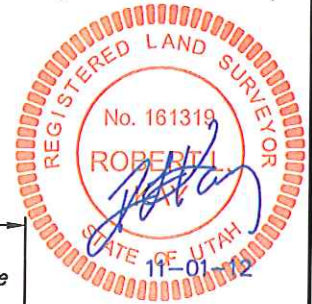
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BERRY PETROLEUM COMPANY
TYPICAL CROSS SECTIONS FOR
FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4

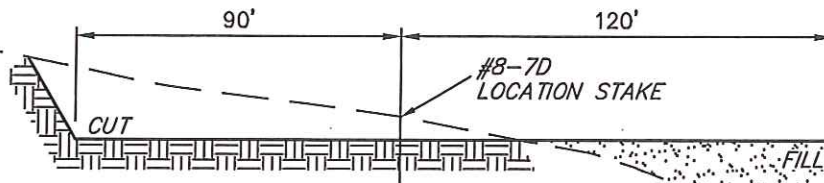
FIGURE #2

1" = 20'
 X-Section
 Scale
 1" = 50'

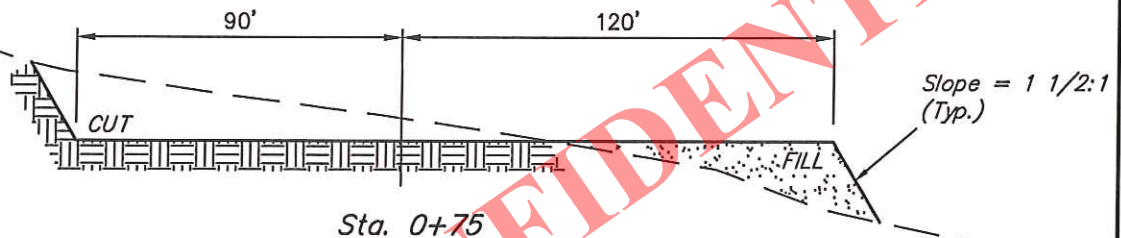
DATE: 09-26-12
 DRAWN BY: Z.L.
 REV: 11-01-12 S.F.



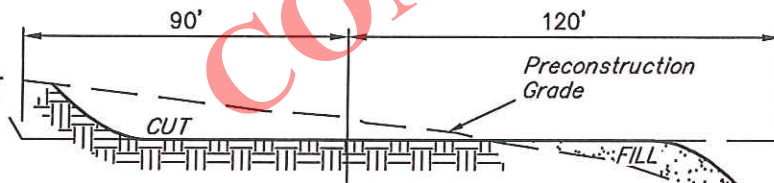
Sta. 3+20



Sta. 1+50



Sta. 0+75



Sta. 0+00

NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 1.842 ACRES
 ACCESS ROAD DISTURBANCE = ± 1.698 ACRES
 PIPELINE DISTURBANCE = ± 1.652 ACRES
 TOTAL = ± 5.192 ACRES

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,420 Cu. Yds.
 Remaining Location = 4,710 Cu. Yds.
TOTAL CUT = 6,130 CU. YDS.
FILL = 4,710 CU. YDS.

EXCESS MATERIAL = 1,420 Cu. Yds.
 Topsoil = 1,420 Cu. Yds.

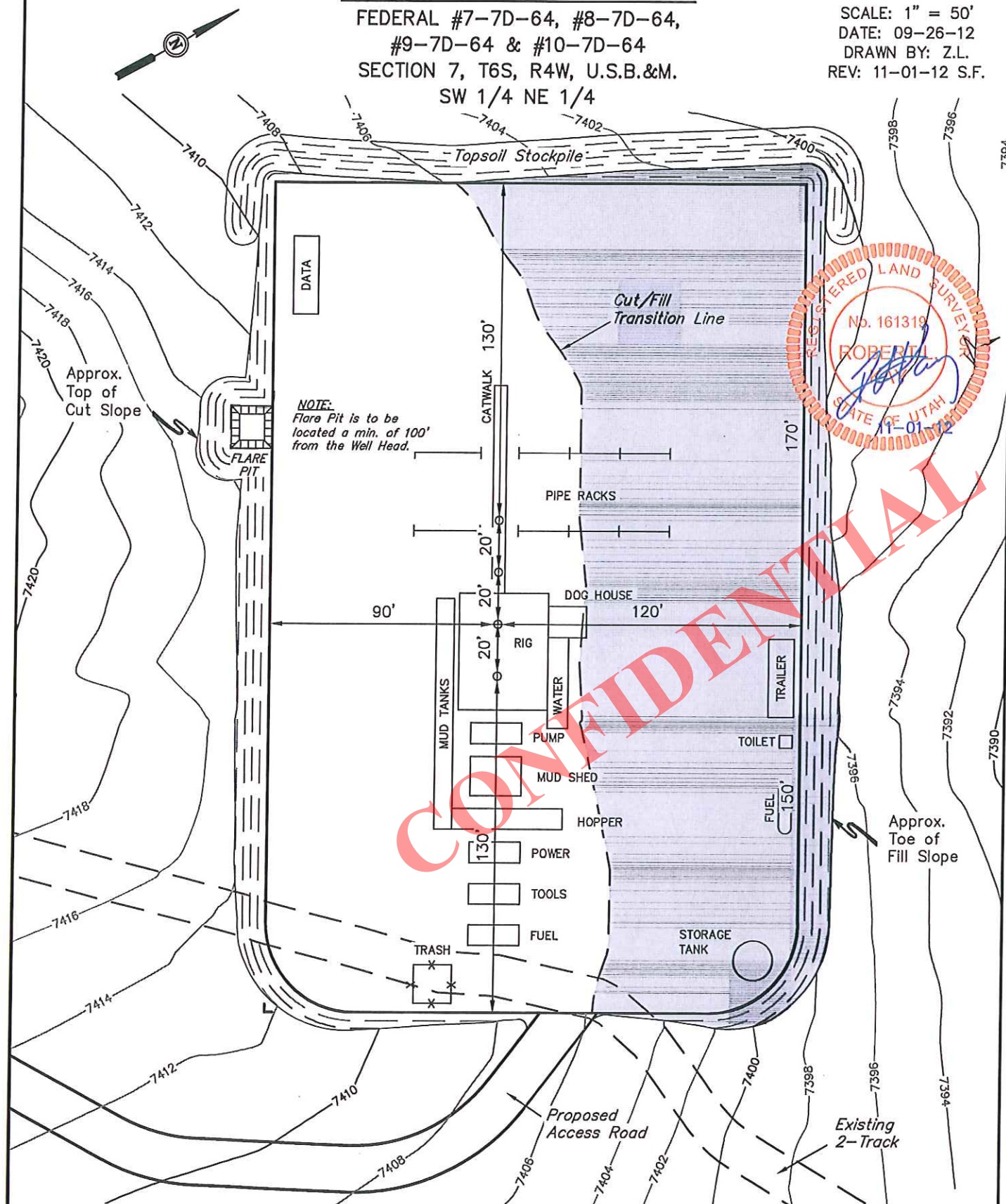
EXCESS UNBALANCE = 0 Cu. Yds.
 (After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BERRY PETROLEUM COMPANY
TYPICAL RIG LAYOUT FOR
FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4

FIGURE #3

SCALE: 1" = 50'
 DATE: 09-26-12
 DRAWN BY: Z.L.
 REV: 11-01-12 S.F.



UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BERRY PETROLEUM COMPANY**SLOPE ANALYSIS FOR**

FEDERAL #7-7D-64, #8-7D-64,

#9-7D-64 & #10-7D-64

SECTION 7, T6S, R4W, U.S.B.&M.

SW 1/4 NE 1/4

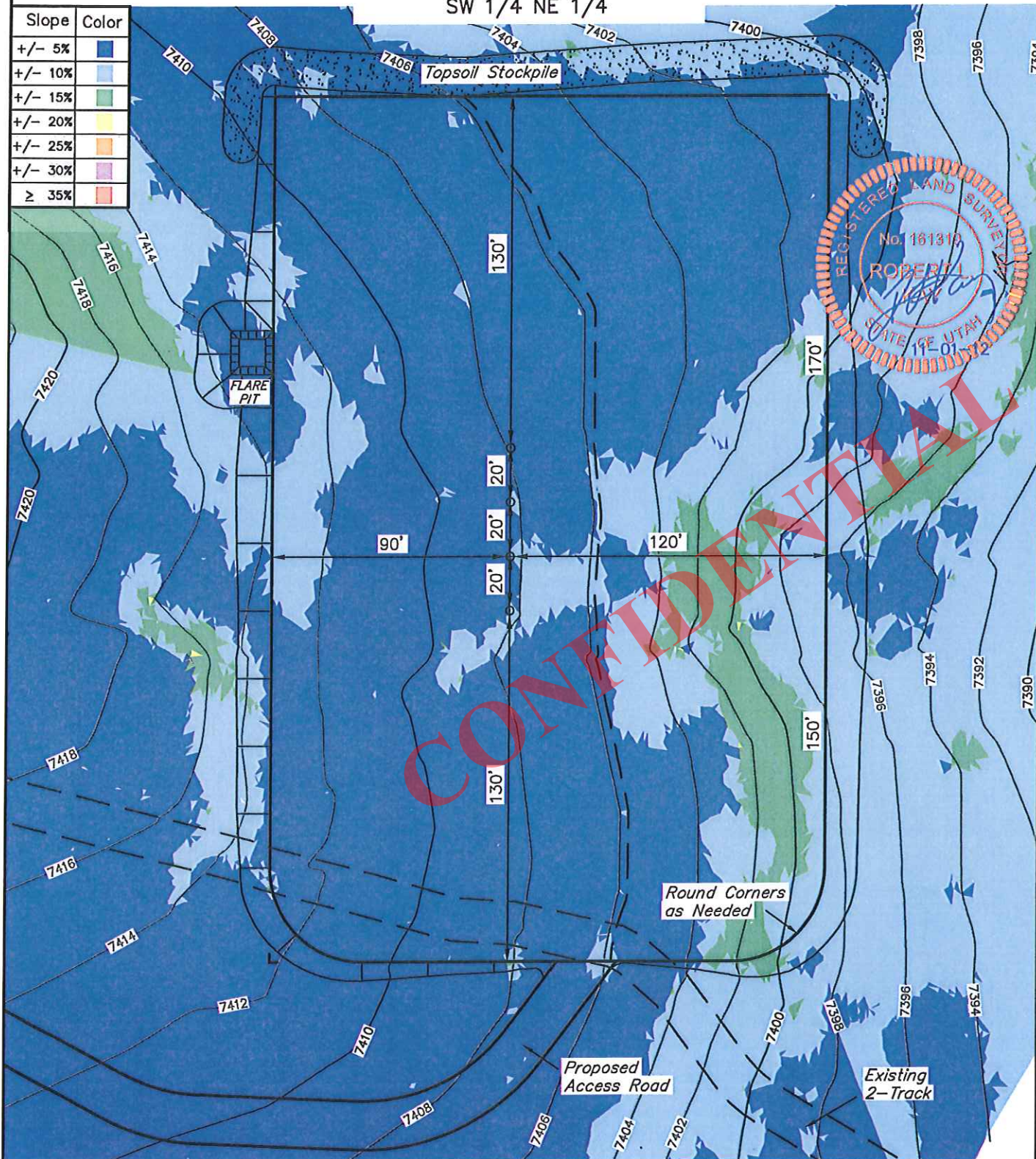
FIGURE #4

SCALE: 1" = 50'

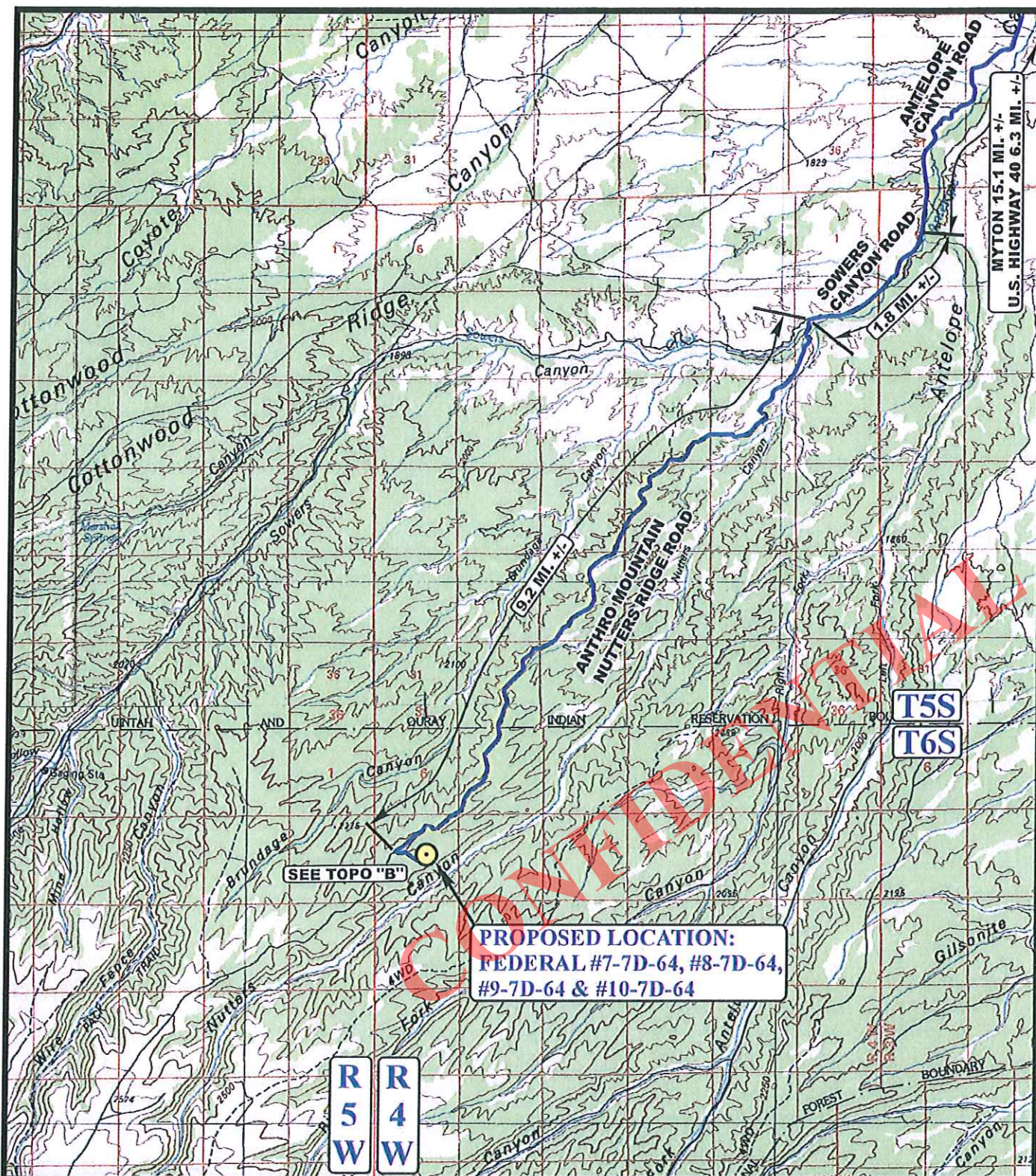
DATE: 09-26-12

DRAWN BY: Z.L.

REV: 11-01-12 S.F.

**UINTAH ENGINEERING & LAND SURVEYING**

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

● PROPOSED LOCATION

BERRY PETROLEUM COMPANY

FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

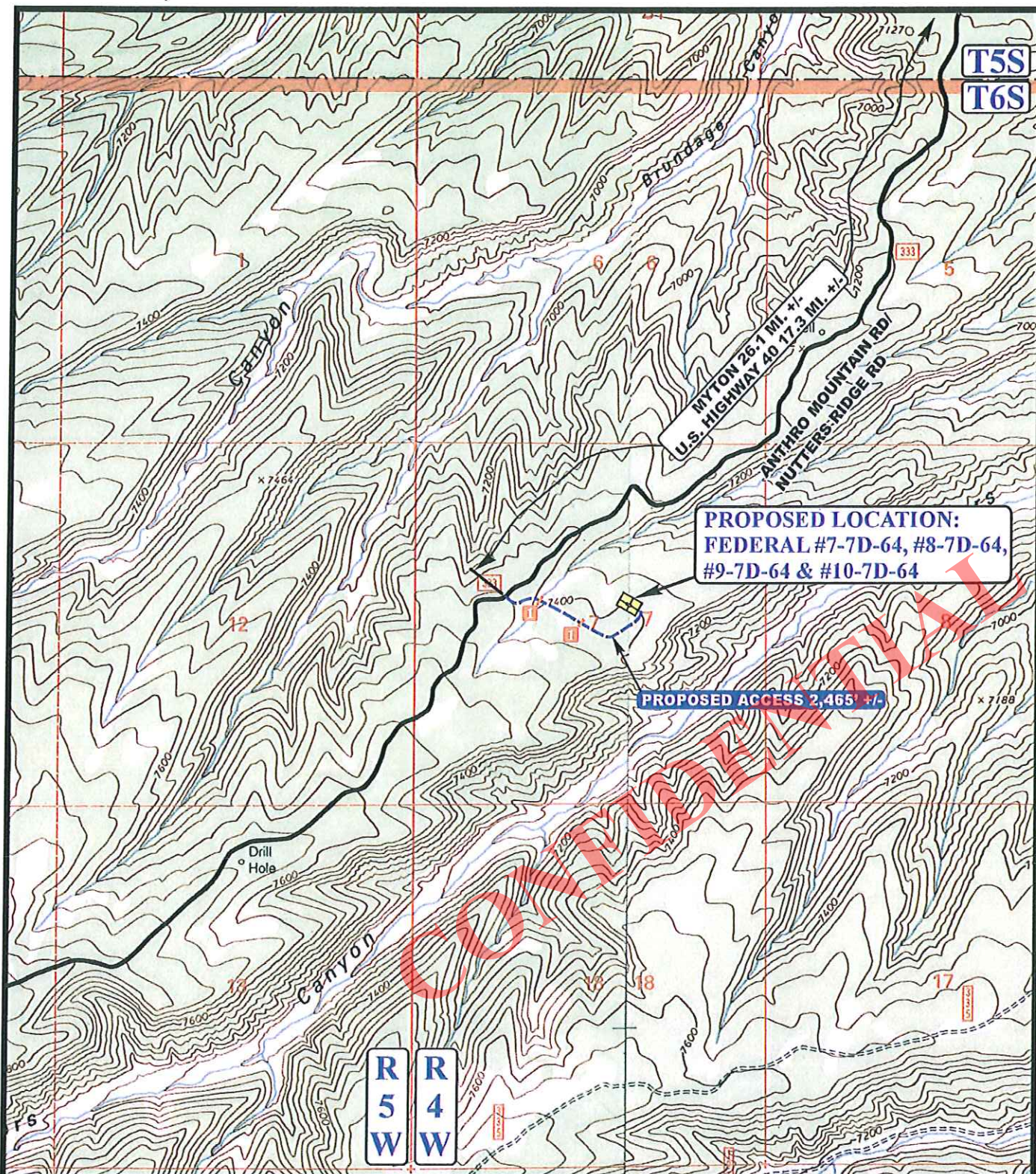


ACCESS ROAD
MAP

08 24 09
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: L.K. REV: 11-02-12 C.I.





LEGEND:

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD
- R R W W 24" CMP REQUIRED



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 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



BERRY PETROLEUM COMPANY

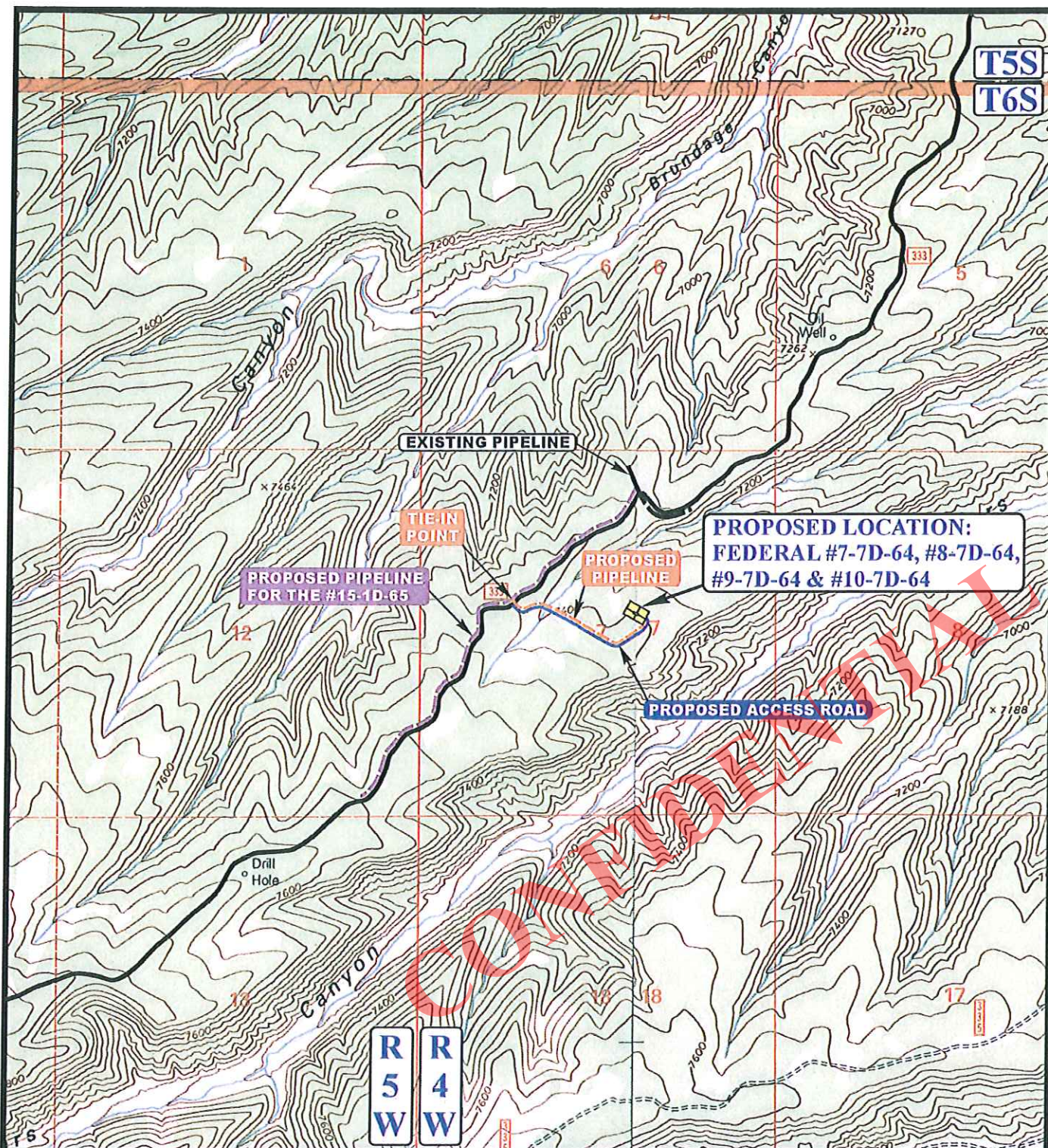
**FEDERAL #7-7D-64, #8-7D-64,
 #9-7D-64 & #10-7D-64
 SECTION 7, T6S, R4W, U.S.B.&M.
 SW 1/4 NE 1/4**

**ACCESS ROAD
 MAP**

08 24 09
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: L.K. REV: 11-02-12 C.I.

**B
 TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,398' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

BERRY PETROLEUM COMPANY

FEDERAL #7-7D-64, #8-7D-64,
#9-7D-64 & #10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.
SW 1/4 NE 1/4



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

08 24 09
MONTH DAY YEAR

D
TOPO

SCALE: 1" = 1000' DRAWN BY: L.K. REV: 11-02-12 C.I.

BERRY PETROLEUM COMPANY
FEDERAL #7-7D-64, #8-7D-64, #9-7D-64 & 10-7D-64
SECTION 7, T6S, R4W, U.S.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.8 MILES TO THE JUNCTION OF THIS ROAD AND ANTELOPE CANYON ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 6.3 MILES TO THE JUNCTION OF THIS ROAD AND SOWERS CANYON ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND ANTHRO MOUNTAIN/NUTTERS RIDGE ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 9.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2,465' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 26.6 MILES.

CONFIDENTIAL

BERRY PETROLEUM COMPANY
FEDERAL #7-7D-64, #8-7D-64, #9-7D-64 & #10-7D-64
LOCATED IN DUCHESNE COUNTY, UTAH
SECTION 7, T6S, R4W, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



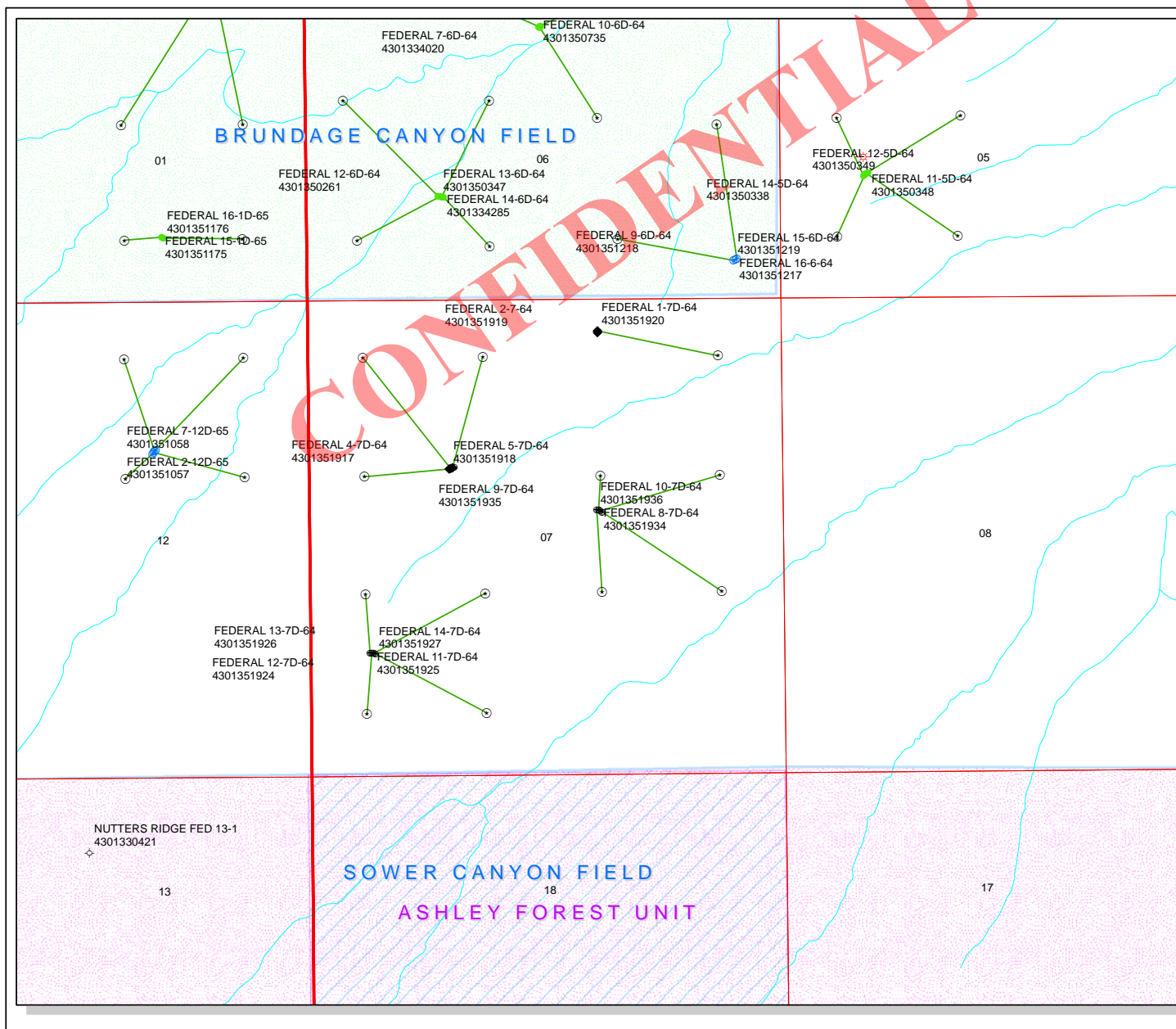
U **E** **L** **S** **Uintah Engineering & Land Surveying**
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

08 **24** **09**
MONTH DAY YEAR

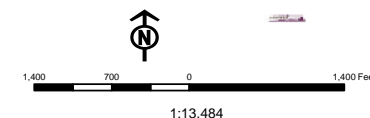
PHOTO

TAKEN BY: GO. | DRAWN BY: L.K. | REV: 11-02-12 C.I.



API Number: 4301351935
Well Name: FEDERAL 9-7D-64
Township T06.0S Range R04.0W Section 07
Meridian: UBM
Operator: BERRY PETROLEUM COMPANY
 Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
	TA - Temp. Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well
	Bottom Hole Location - Oil/Gas/Dls
Fields	
Unknown	
ABANDONED	
ACTIVE	
COMBINED	
INACTIVE	
STORAGE	
TERMINATED	



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/19/2012

API NO. ASSIGNED: 43013519350000

WELL NAME: FEDERAL 9-7D-64

OPERATOR: BERRY PETROLEUM COMPANY (N2480)

PHONE NUMBER: 435 722-1325

CONTACT: Kathy K. Fieldsted

PROPOSED LOCATION: SWNE 07 060S 040W

Permit Tech Review: ☒

SURFACE: 2380 FNL 1971 FEL

Engineering Review: ☐

BOTTOM: 1980 FSL 0660 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 39.97508

LONGITUDE: -110.37541

UTM SURF EASTINGS: 553335.00

NORTHINGS: 4425178.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU8894A

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - UTB000035☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-12400☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☒ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-11

Effective Date:

Siting:

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: December 27, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: FEDERAL 9-7D-64

API Well Number: 43013519350000

Lease Number: UTU8894A

Surface Owner: FEDERAL

Approval Date: 12/27/2012

Issued to:

BERRY PETROLEUM COMPANY, 4000 South 4028 West Rt 2 Box 7735, Roosevelt, UT 84066

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to

correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 12 2012
2013

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		CONFIDENTIAL		5. Lease Serial No. UTU8894A
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone				6. If Indian, Allottee or Tribe Name
2. Name of Operator BERRY PETROLEUM COMPANY		Contact: KATHY K FIELDSTED E-Mail: kkf@bry.com		7. If Unit or CA Agreement, Name and No.
3a. Address 4000 SOUTH 4028 WEST ROOSEVELT, UT 84066		3b. Phone No. (include area code) Ph: 435-722-0065 Fx: 435-722-1321		8. Lease Name and Well No. FEDERAL 9-7D-64
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 2380FNL 1971FEL 39.975019 N Lat, 110.375481 W Lon At proposed prod. zone NESE 1980FSL 660FEL 39.975019 N Lat, 110.375481 W Lon		9. API Well No. 43-013-51935		10. Field and Pool, or Exploratory BRUNDAGE CANYON
14. Distance in miles and direction from nearest town or post office* 27		11. Sec., T., R., M., or Blk. and Survey or Area Sec 7 T6S R4W Mer UBM SME: USFS		12. County or Parish DUCHE SNE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1971		16. No. of Acres in Lease		13. State UT
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 20		19. Proposed Depth 6158 MD 5862 TVD		17. Spacing Unit dedicated to this well 40.00
21. Elevations (Show whether DF, KB, RT, GL, etc.) 7408 GL		22. Approximate date work will start		20. BLM/BIA Bond No. on file UTB000035
				23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY K FIELDSTED Ph: 435-722-0065	Date 12/19/2012
Title SR. REG & PERMITTING TECH		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date MAY 31 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #167179 verified by the BLM Well Information System
For BERRY PETROLEUM COMPANY, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 01/25/2013 (13JM0171AE)

NOTICE OF APPROVAL

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Berry Petroleum Company
Well No: Federal 9-7D-64
API No: 43-013-51935

Location: SWNE, Sec. 7, T6S, R4W
Lease No: UTU-8894A
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

The following is a list of conditions of approval, for the proposed well noted above, which are being required by the Ashley National Forest. These conditions are in addition to those listed in the Surface Use Plan of Operations (SUPO) and APD that were submitted for the proposed well.

Air Quality

- The Operator will use drill rigs that meet the EPA Tier II emission standards or better for the life of the project (LOP).
- The Operator will conduct green completions to minimize natural gas/methane and volatile organic compound (VOC) emissions. A green completion involves capturing natural gas that initially flows from a well after flowback of water has finished. The Operator will direct natural gas flowing from newly completed wells into the sales pipeline, or use it for fuel gas for on-site heaters and the pump jack engine. This is accomplished using a separator to separate water, sand, oil, and gas initially coming out of the well.
- The Operator will install pump jack engines that meet the applicable New Source Performance Standards (NSPS) emission limits for pump jack engines.
- The Operator will install emission controls on condensate tank batteries and dehydrators with control efficiencies of greater than 95%.
- The Operator will test the efficiency of controls annually and ensure that flaring/combustors meet >90% efficiency.
- The Operator will install viton/teflon seals for chemical and cold weather service (Enardo thief hatches and Stack Vents) on hatches and valves.
- The Operator will install three phase separators on its gas pipelines at the compressor stations, which will stabilize the natural gas liquids at a much lower pressure, and re-route the majority of VOC flash emissions back into the gas pipeline, instead of dumping them into the condensate tanks, which are at atmospheric pressure. The resulting reroute of the VOC flash gas into the gas pipeline and reduced pressure drop at the condensate tanks will greatly reduce VOC flash emissions at the tanks.

- The Operator will ensure that the design of VOC collection systems (piping, valves, etc.) are adequate for control systems for the LOP.
- The Operator will install low/no bleed pneumatic controllers and valves on all new equipment.
- The Operator will route pneumatic pump emissions to either emission control devices, or back into the process stream to eliminate emissions.
- The Operator will install secondary control systems on project-related compressor engines to reduce emissions. Potential secondary control systems include the following.
- Installation of new ultra lean burn engines with oxidation catalysts and turbochargers. These engines have been engineered to significantly reduce emissions through air-fuel ratio modifications, modified piston design, and utilize oxidation catalysts as a secondary control measure to further reduce emissions from the engines.
- Installation of rich burn engines equipped with three-way catalysts as a secondary control measure. These engines with the secondary control device can achieve substantially lower emissions than older engines not equipped with secondary controls.
- The Operator will implement a leak detection program that is consistent with EPA Method 21, once gas production has ramped up to the point where compression is needed.
- Leak detection surveys will be conducted on a quarterly basis, the results documented, and repairs made on a timely basis where leaks are detected.
- A Leak Detection Plan will be submitted to the Forest Service and/or EPA for approval.
- The leak detection limit will be 10,000 parts per million (ppm) of methane. If a leak is discovered during an inspection, the leaking piece of equipment would be tagged, and the appropriate personnel would be notified. The tag would remain in place until the leak is repaired and re-sampled to verify the leak is no longer occurring.
- Leaks at or above 10,000 parts per million (ppm) will be repaired within 15 days. An exception to this repair schedule would be if the leak is occurring on an essential component, where the repair would require the shutdown of a critical process unit that would affect operation of the proposed project. An example would be the shutdown of a compressor serving 25% of the field. If a leak above 10,000 ppm is discovered on a critical process unit, the leak would be repaired during the next scheduled shut down of the equipment for maintenance or other repairs, but would not exceed one year from the date of leak discovery.
- Leak findings and repairs will be documented.
- The Operator will install and operate an ozone monitoring station southwest of Roosevelt, Utah, on Operator-owned property. The ozone monitoring program will be consistent with those managed by the State of Utah and the EPA in the Uintah Basin, and data collected will be provided to the State and the EPA.
- Reduce fugitive dust from roads by observing speed limits and applying water as needed. Water used for this purpose will be fresh water, not production water. If water application does not adequately reduce fugitive dust, the use of magnesium chloride (MgCl) or other dust suppression methods would be considered; however, MgCl should not be applied within 100 feet of perennial

streams, wetlands, springs, wet areas, or ambient water. In proximity to such settings gravel surfacing or non-chloride dust suppressants would be considered.

Cultural Resources

- Stipulations of the Berry Petroleum South Unit Programmatic Agreement (Agreement # AS-11-00017) will be fully implemented in order to fulfill the requirements of Section 106 of the National Historic Preservation Act and to avoid, minimize, or mitigate adverse effects to National Register eligible cultural sites affected by the project.
- Ground-disturbing activities (road construction and upgrading, well pad construction, pipeline placement, etc.) will not be authorized until cultural resource identification and avoidance procedures have been completed as specified in the Berry Petroleum South Unit Programmatic Agreement (Agreement # AS-11-00017).
- The Cultural Resource Monitoring Plan as specified in the Berry Petroleum South Unit Programmatic Agreement (Agreement # AS-11-00017) will be implemented to evaluate indirect and cumulative effects of the project on cultural resources.
- All personnel, subcontractors, and consultants associated with the project will refrain from collecting, damaging, or impacting cultural resources on the Forest.
- If cultural resources are inadvertently discovered, construction activities will be halted within 100 feet of the discovery and the Forest Service notified. Operations in the area of the discovery will not resume until stipulations of the Forest inadvertent discovery plan have been fulfilled and the authorization to proceed has been received from the Forest Service.
- The proposed project has been surveyed for National Register eligible archaeological resources and none were found. However, if construction activities uncover or expose or buried archaeological resources, the applicant and subcontractors will cease all activities within 100ft/30m of the discovery. The applicant will contact Ashley National Forest and will follow the Forest's Cultural Resource Inadvertent Discovery Plan.
- All personnel involved in construction, operation, and maintenance of the facilities described in the APD will sign and follow the "Archaeological Rules and Restrictions for Berry Petroleum Oil and Gas Development on Ashley National Forest Lands" (Attachment F of the Programmatic Agreement.)

Modified Visual Quality Objectives

- Facilities shall incorporate appropriate camouflage coloring, facility design, proper placement, edge "feathering" along roads and vegetation/road boundaries, and/or topographic screening to reduce or eliminate the casually observable effects of well pads, access roads, and pipeline infrastructure.
- Topographic screening and proper placement of well pads and facilities could include hiding well pads and/or facilities behind ridge lines, in natural depressions, behind vegetation, or behind rock outcrops.
- Where feasible, facility design should include combining facilities to minimize the number of structures, burying part of the structure, using natural-appearing forms, or using low-profile structures (where taller structures or tanks would be more visible) to reduce visibility and minimize form contrasts.

- Minimize well pad size to reduce color and line contrasts.
- Design access roads, when feasible, to follow landform or vegetation contours to reduce linear contrasts.
- Plan for and apply interim or intermediate well pad site and access road reclamation to reduce the visual size of surface disturbances and reduce color and line contrasts.
- Avoid excessive side-casting of earth materials from ridgelines and steep slopes to reduce soil color contrasts.

Paleontological Resources

- Site-specific paleontological surveys will be required prior to the start of ground disturbing activities, for proposed development in geologic units (generally PFC Class 4 and 5) deemed likely to contain significant vertebrate fossils and/or noteworthy occurrences of invertebrate, plant, or trace fossils.
- If paleontological surveys show significant paleontological resources are known or likely to be present within a specified area, then paleontological monitoring of surface-disturbing activities within that area will be required.
- Where required for a given area, paleontological monitoring may involve concurrent observation of all construction activities within that area, or may consist of periodic spot-checking and salvage of observed fossil resources, as determined by the Forest Service on a case by case basis. The level of paleontological monitoring deemed necessary by the Forest Service for a given area will depend on the nature and abundance of fossil resources expected to be encountered within that area, and may change (either higher or lower) as construction and paleontological monitoring activities progress.
- Any significant fossils identified during paleontological surveys or monitoring efforts will be collected by a qualified paleontologist, properly documented, and transferred to a Forest Service-approved paleontological repository for curation.
- Paleontological monitors will have authority to temporarily divert operating equipment away from exposed fossils in order to professionally, safely, and efficiently recover the fossil specimens and collect associated data. Monitors will also have authority to temporarily stop construction activities in the vicinity of exposed fossil resources.
- If significant paleontological resources are discovered at a site where or when a paleontological monitor is not present, construction activities would be halted and the Forest Service notified. Ground disturbing operations in the area of the discovery would not resume until authorization to proceed has been received from the Forest Service.
- Paleo monitoring will be required.

Range

- Fence well pads, as needed and as determined by the Forest Service, to prevent cattle from entering well pad areas.

- Repair all fences damaged by or removed for construction.
- Avoid range improvements such as stock ponds, guzzlers, and other watering amenities, where possible.

Surface Impacts – General/Multi-Purpose

- Detailed site specific restoration plans will be submitted with each application to drill, detailing re-vegetation strategies and potential sources of additional soil if needed.
- Production facilities will be consolidated when possible, to reduce disturbance from traffic, habitat fragmentation, and total surface area impacts.
- Pump jack engines will be equipped with high-grade mufflers to reduce noise during the operational LOP.
- Cut slopes required for pad construction will not be steeper than 1.5:1. In some cases, additional engineering measures will be implemented to construct drainage systems and culverts in order to divert water flow away from the well pads and roads, prevent erosion, and prevent sediment loading in creek channels due to construction. Such engineered designs will be submitted for review with site-specific APDs.
- Gas gathering pipelines will be located in the 35-foot right-of-way along access roads except as needed on a site-specific basis to resolve safety concerns or comply with other resource mitigation measures.
- For all locations and access roads, the Operator will promptly re-vegetate all disturbed areas not necessary for future operations with a Forest Service-approved seed mixture. Re-vegetation would commence immediately after construction, or immediately after the disturbed area is no longer needed for future operations. Reclamation achievement will be evaluated using the standards described in the Reclamation Plan (FEIS Appendix B). Rehabilitation efforts must be repeated if it is concluded that the success rate is below an acceptable level as determined by the Forest Service.
- If vegetation on the well pad fill slope does not provide at least 60% ground cover within 60 days of creating the well pad, engineering practices will be implemented to control erosion. Such engineering measures may include mulching, use of fiber mats, cross slope trenching, contour furrows, rock dams, terracing, or other erosion control practices.
- Final reclamation will occur after a well is no longer productive. Each well will be plugged, capped, and all surface equipment including surface pipelines will be removed at the end of its productive life. Buried pipelines will be plugged at specified intervals and abandoned in place.
- At the end of its productive life, each well pad will be re-contoured to mimic the adjacent natural topography using heavy equipment and previously salvaged soil material would be spread over the surface of the pad site. The reclaimed surface will then be reseeded with vegetation; the seed mix would be determined by the Forest Service and will generally mimic native vegetation surrounding the specific well site. Sufficient erosion control is assured when adequate groundcover is reestablished, water naturally infiltrates into the soil, and gullying, headcutting, slumping, and deep or excessive rilling is not observed. Well site reclamation will be performed and monitored in consultation with the ANF, including the control of noxious weeds.

Transportation

- Detailed site specific transportation plans will be submitted for each APD or groups of APDs submitted for review. Transportation plans will include detailed route locations, drawings, gates, signage, erosion control, drainage, road maintenance, etc.
- All existing and new access roads will be maintained and kept in good repair during all drilling, completion, and producing operations associated with the proposed oil and gas wells. Road maintenance will include grading, maintaining drainage, watering (as needed), fixing mud holes, cleaning cattle guards, snow removal, sign maintenance (for signs associated with oil and gas wells or development), etc. Snow removal will be done in a manner approved by the Forest Service in order to reduce road surface loss and erosion.
- New route construction will be the minimum necessary for safely conducting the approved activity. When no longer required for use in the project, new routes will be closed by re-contouring to match local topography, scarification and reseeded.
- New access roads and surface-disturbing activities will conform to the BLM Gold Book (BLM 2007) standards and/or Forest Service specifications.
- The road grade for new roads within the Project Area will be 10% or less wherever possible.
- Graveling or capping the roadbed will be performed as necessary to provide a well-constructed, safe road.
- Appropriate water control structures for roads will be installed to control erosion.
- New access roads and other disturbed areas that are no longer needed will be restored to near their original condition and Forest Service reclamation procedures will be followed.
- The Operator will consult with Duchesne County, the Utah Department of Transportation, and adjacent land managers to ensure that roads serving the Project Area are adequately maintained and repaired.
- All roads constructed by the Operator will be closed to public motorized use through the use of Forest Service approved signs and gates.
- Construction equipment used to construct well pads and roads will be cleaned of soil prior to entering forest lands in order to prevent the spread of noxious weeds.
- Contractors and employees are required to comply with all posted speed limits.
- There will be no major cuts and fills for road construction, or road bridges. If it becomes necessary to install a culvert at some time after approval of the APD, the Operator would submit a Sundry Notice requesting approval from the Forest Service.
- There will be no gates, cattle guards, fence cuts, or modifications to existing facilities without prior consent of the Forest Service.
- In semi-primitive non-motorized/roadless areas, roads will be located, designed, and reclaimed in a manner that minimizes effects to the semi-primitive character of the land.

- All construction/operations traffic will be confined to the approved road ROW and any additional areas as specified in an approved APD. No cross-country travel by vehicles will be allowed.
- If the disturbed road width needs to exceed 35 feet to accommodate larger equipment, intersections, or sharp curves, approval will be required from the Forest Service. Turn-out areas will not be constructed unless deemed necessary for safety reasons and approved by the Forest Service.
- A transportation plan is required with full design where road is proposed on steep terrain or steep sideslopes. This will require full design where the road drops into the drainage and back up the other side. Plan must include a low water crossing design. The road should be built up through the drainage with the exception of the location of the low water crossing. Various larger culverts will be required (see above) and additional standard culverts/wing-ditches as needed.
- A gate w/ "Authorized..." signage is required at the intersection.
- Road can be narrower since it only accesses one pad.
- Close by placement of woody debris the initial 100-200' of the unauthorized 2-track route where it meets FS Rd 333 (552488 e 4424870 n NAD83. The initial 100-200' of 2-track should also be ripped and seeded as an additional measure to discourage continued use of this route. Other locations where this 2-track meets alignment of the constructed access route, closure by woody debris placement, berming, or ripping and seeding should also be used. Remainder of the 2-track has sufficient vegetation to readily regrow once vehicle traffic has ceased.

Water and Soils

- The Operator will recycle/reuse approximately 70% of produced water generated by the project, using it both for drilling and completions of new wells, or for other off-site projects. The remaining produced water will be sent to a permitted disposal facility.
- Use closed loop drilling to eliminate the need for reserve pits, reduce closure and waste management costs, and reduce potential for contamination from leaking.
- Minimize topsoil removal during drilling activities, where feasible, to minimize disturbance to sensitive soils and vegetation.
- Well sites will be reclaimed back to natural condition by re-vegetating with biologically active topsoil.
- To prevent erosion of disturbed soils, vegetation and/or structural measures to control erosion will be implemented as soon as possible after initial soil disturbance.
- The operator will prepare and submit a Spill Prevention, Control, and Countermeasure Plan (SPCCP) that would minimize the risk of spills by detailing techniques to prevent spills of drilling, fracturing, or produced fluids, and outlining measures to be taken in the event of a spill.

- Energy dissipaters such as straw bales and silt fences may be required to prevent sediment delivery from disturbed areas to stream channels or floodplains. These structures would be installed during construction, and would be left in place and maintained for the LOP or until the disturbed slopes have re-vegetated and stabilized.
- To assess the potential impact of the project on Sowers Creek, the Operator will monitor the stream for phenols, boron, nutrients, and sediment-related indicators on a quarterly basis, and provide that information to the Forest Service.

Channel Buffers

- To ensure proper floodplain function and to reduce the potential for delivery of sediment and other pollutants to waterways, an undisturbed vegetative buffer between upland activities and stream channels will be maintained.
- In the case of perennial streams (i.e. Sowers Creek), facilities such as well pads, tank batteries, and compressor stations will be located outside the 100-year floodplain or a distance of 150 feet from the high water line, whichever is greater (as per INFISH recommendations for non-fish-bearing perennial streams).
- In the case of intermittent and ephemeral drainages, a minimum distance of 50 feet will be maintained between facilities (such as well pads, tank batteries, and compressor stations) and the active channel and cutbanks of adjacent vertical terraces. For priority watersheds, classified as impaired by the Utah Division of Water Quality, siting of facilities within 100 feet of intermittent/ephemeral channels will be avoided where feasible; and where it occurs, would be subject to more rigorous monitoring and implementation of erosion control measures.
- New road and pipeline construction within these buffer zones will be minimized and generally limited to perpendicular or near perpendicular crossings of channels. Additional mitigation measures and road maintenance requirements would apply regarding the design of channel crossings, road drainage, erosion control, and dust abatement.

Spring and Riparian Buffers

- A minimum distance of 100 feet will be maintained between surface disturbing activity and springs or seeps, as measured from the outer edge of their associated wetland/riparian vegetation.
- Other than limited cases for road and pipeline crossings, a minimum distance of 100 feet will be maintained between surface disturbing activities and streamside riparian habitat as measured from the outer edge of the riparian vegetation. In the case of perennial streams (i.e. Sowers Creek), the buffer will be 150 feet from the high water line of the channel, or 100 feet from riparian habitat, whichever distance is greater.

Road Drainage Crossings

- Road drainage crossings will be of the typical dry creek drainage crossing type. Crossings will be designed so they will not cause headcutting, siltation, or accumulation of debris in the channel, and so drainages will not be blocked by the roadbed. Plans for crossings will be submitted and subject to Forest Service engineer approval before construction may begin. Other permit requirements/coordination required for crossings may include: U.S. Army Corps of Engineers 404 permitting and State of Utah 401 permitting.

- Open/low water crossings may require improvement by hardening with rock base. Where culvert crossings are deemed necessary, culverts would be sized according to Forest Service engineer and hydrologist direction.
- Culverts in perennial streams will be designed to allow for passage of aquatic organisms.
- Road fill-slopes at stream crossings will require design features such as boulder placements, matting, mulch, reseeding, to prevent erosion.
- Gravel surfacing of the roadbed adjacent to crossings may be required to reduce transport of sediment to stream channels.
- Well pads will not be developed on steep slopes >35%, (including but not limited to NSO slopes), stream corridors, formerly irrigated lands, or highly erodible soils.

Weeds

- Conduct pre-construction surveys in the spring for weed infestations within the site boundaries and along access roads.
- Consult Duchesne County Weeds Department to determine treatment for noxious weeds, if identified.
- Construction vehicles and equipment will be cleaned, power-washed, and free of soil and vegetation debris prior to entry and use of access roads to prevent transporting weed seeds.
- All seed mixtures, erosion control materials, and reclamation materials will be certified weed free.
- Re-vegetated areas will be monitored following seeding to evaluate the need for supplemental seeding and noxious weed control.
- The ROW and other disturbed areas will be monitored for weed infestations, and new or expanding populations will be controlled or eradicated for the duration of the construction, operation, and reclamation phases.
- The presence of designated weeds in the Project Area requires that the Operator develop and implement management measures to prevent the spread of noxious weeds and install a monitoring system.
- During the construction phase of the project, the Operator will implement an intensive reclamation and weed control program after each segment of project completion. The Operator will reseed all portions of well pads and road and pipeline ROWs not utilized for the operational phase of the project. Reseeding will be accomplished using a Forest Service approved seed mixture. Post-construction seeding applications will continue until determined successful by the Forest Service. Weed control will be conducted through an approved Pesticide Use and Weed Control Plan from the Authorized Officer (AO). Weed monitoring and reclamation measures will be continued on an annual basis (or as frequently as the AO determines) throughout the LOP. Herbicides shall be selected from those approved for use on the ANF.

Wildlife

Elk and Deer

- Well pad and road construction, road upgrades, and drilling operations will not be conducted between November 15 and April 30 to protect elk winter range.
- Existing guzzlers present near proposed well pads will be reconstructed by the Operator in new locations away from well pads, in order to reduce the impacts of increased traffic and human presence on elk, mule deer, and other wildlife utilizing those structures for drinking.

Goshawk

- If activities are proposed in suitable goshawk habitat, ground surveys will be conducted prior to construction to identify active or potentially active goshawk nest sites.
- If a goshawk nest is discovered within the Project Area, the following mitigation measures will be implemented.
 - Within a 0.5-mile buffer of an active nest, restrict activities and human uses during the active nesting period (March 1–September 15) unless it is determined that the disturbance is not likely to result in nest abandonment.
 - No surface disturbance will be allowed within a 30 acre buffer of a nest.

Golden Eagle

- Although no golden eagle nests have been documented within the Project Area, aerial and/or ground surveys of the proposed Project Area will be conducted prior to construction activities to identify active or potentially active golden eagle nest sites.
- If golden eagle nests are detected within the Project Area, the following mitigation measures will be implemented to protect nesting golden eagles.
 - No permanent surface occupancy will be allowed within 0.5 mile of an active golden eagle nest to reduce the risk of decreased productivity or nest failure, unless topography eliminates the risk of abandonment.
 - Unless topography eliminates the risk of nest abandonment, no temporary project activities can occur within a 0.5 mile buffer of an occupied golden eagle nest between April 30 and August 31.
- Shield pipeline installation equipment, well sites, and other facilities with camouflage netting, where there is line of sight from active nests to the activity.

Lincoln's Sparrow, Song Sparrow, and Bats

- A 150 foot no surface disturbance buffer will be maintained along each side of Sowers Creek for well pads and new roads, with the exception of needed stream crossings.
- To protect water sources for bats, a 100 foot no surface disturbance buffer will be placed around all springs.

Migratory Birds

- Prior to ground disturbing activities within the migratory bird nesting season (May 15–June 30), surveys for Birds of Conservation Concern (BCC) and Partners in Flight (PIF) priority species will be conducted. If any of these species are detected during the surveys, a nest search will be conducted. If nests are found or are suspected, then no ground-disturbing activities would be allowed from May 15–June 30 within 0.1 mile of the nest or estimated location of the nest.

Sage Grouse

- To reduce potential disturbance to strutting birds (and the likelihood of lek abandonment), nesting birds, and habitat, no well pads or permanent structures will be allowed within 0.6 mile of an occupied lek. This measure would distance structures away from leks that raptors may use for perching.
- To reduce potential disturbance to strutting birds (and the likelihood of lek abandonment), timing restrictions will be required during the breeding season (March 1–May 31) within sage-grouse habitat, and within 0.6 mile of sage-grouse habitat. No project-related vehicles or activities (including routine maintenance, production vehicles, or work-over rigs) will be allowed, from 1 hour before sunrise to 3 hours after sunrise, and from 2 hours before sunset to 1 hour after sunset.
- From March 1 through June 30, no surface-disturbing activities (including construction, drilling, and well flaring) will be allowed for wells located within sage-grouse habitat in order to protect nesting sage-grouse.
- To avoid disruption of sage-grouse migration activities, no well pad construction, road construction, drilling, or work-over rigs will be allowed on ridge tops from November 15 to March 1 within 4 miles of a lek.
- Within 4 miles of a lek, sage grouse habitat will be buffered by 0.6 mile. Within this buffer well pad construction will not exceed an average of one well pad/square mile (640 acres). This mitigation will be applied to the Project Area. Additionally, no more than 5% of sage grouse habitat is allowed to be disturbed within the Project Area. This will reduce the amount of disturbance to sage grouse and maintain the one disturbance/square mile threshold.
- The Anthro Mountain telemetry study has shown that sage-grouse may be using openings in pinyon/juniper during migration events. Therefore within 4 miles of a lek, in openings of the pinyon/juniper (chained or natural openings in pinyon/juniper belt), well pads shall be located as close to the edge of the opening as possible.
- To reduce noise levels down to an acceptable level so as not to disturb strutting birds or cause lek abandonment, all wells within 3.1 miles of a lek will be muffled with the latest technology to reduce noise levels from wells down to no more than 45dB at a lek. All wells within 3.1 miles of a lek will have mufflers oriented away from leks.
- To reduce the vantage point that raptors might have by perching on new structures, low-profile tanks will be required for all well pads within sage-grouse habitat.

- Raptor perch avoidance devices will be installed on existing and proposed power poles and tank batteries to reduce potential predation where sage-grouse concerns exist.
- Project-related activities and vehicle access will not be allowed on the Nutters Ridge Road (FSR 333) or the Wire Fence Ridge Road (FSR 332), south of the Operator's current lease area. This will prevent disturbance to breeding, nesting, brood rearing, and wintering sage grouse that might otherwise occur if project-related access along these roads were permitted.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from TD to TOC in the Production Casing.
- To effectively protect useable water, cement for the production casing is required to be brought 200 feet above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: FEDERAL 9-7D-64
2. NAME OF OPERATOR: BERRY PETROLEUM COMPANY		9. API NUMBER: 43013519350000
3. ADDRESS OF OPERATOR: 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2380 FNL 1971 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 07 Township: 06.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/6/2013			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Federal 9-7D-64 was spud on August 6, 2013 at 9:30 am. 4' of 16" conductor was set followed by 380' of 8 5/8" surface casing.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 09, 2013

NAME (PLEASE PRINT) Krista Mecham	PHONE NUMBER 435 722-1325	TITLE Regulatory Permitting Tech
SIGNATURE N/A		DATE 8/8/2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 9-7D-64
2. NAME OF OPERATOR: BERRY PETROLEUM COMPANY	9. API NUMBER: 43013519350000
3. ADDRESS OF OPERATOR: 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066	PHONE NUMBER: 303 999-4044 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2380 FNL 1971 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 07 Township: 06.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON COUNTY: DUCHESNE STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/24/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Berry Petroleum requests to deepen the Federal 9-7D-64 to a new TD of 6808'. An updated drilling procedure and directional plan is attached. Also, in accordance with UDOGM Rule R649-3-22, Completion into Two or More Pools, Berry is requesting to comingle the Wasatch and Green River Formations, a comingle affidavit and plat is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: August 09, 2013

By: Derek Quist

NAME (PLEASE PRINT) Krista Mecham	PHONE NUMBER 435 722-1325	TITLE Regulatory Permitting Tech
SIGNATURE N/A	DATE 6/24/2013	

BERRY PETROLEUM COMPANY
Federal 9-7D-64
Section 7, T6S, R4W, U.S.B.&M.
Surface: 2380' FNL & 1971' FEL (SW/4NE/4)
BHL: 1980' FSL & 660' FEL (NE/4SE/4)
Duchesne County, Utah

ONSHORE ORDER NO. 1

DRILLING PROGRAM

A,B Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

FORMATION	DRILL DEPTH * @ SHL (TVD)	DRILL DEPTH* @ BHL (TVD)	Measured Depth
Uinta Fm	Surface	Surface	
Green River	1313'	1306'	1341'
Green River Upper Marker	1863'	1856'	1935'
Mahogany	2453'	2446'	2573'
Tgr3	3495'	3478'	3699'
*Douglas Creek	4207'	4184'	4467'
Black Shale	4804'	4782'	5083'
*Castle Peak	5148'	5130'	5428'
*Uteland Butte	5585'	5569'	5865'
*Wasatch	5778'	5762'	6058'
CR-4	6428'	6412'	6708'
TD	6528'	6512'	6808'
Base of Moderate Saline Water	1737'	1752'	

*PROSPECTIVE PAY

Berry is locating the well at the proposed surface location and directionally drilling to the proposed bottom hole location. By drilling directionally, Berry Petroleum Company will improve field development efficiency by potentially combining multiple surface hole locations together. This will significantly reduce total surface disturbance plus combine the use of access roads and existing pipelines.

Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore.

C Pressure Control Equipment : (Schematic Attached)

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. A 3M system will be utilized. The attached diagram depicts the use of an annular in conjunction with double rams. However, an annular, double rams or both may be used depending on the drilling rig contracted.

Chart recorders will be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a representative upon request.

Mud volumes will be monitored visually.

Upper and Lower Kelly cocks will be utilized.

A gas buster will be utilized, if necessary.

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 350'	No Pressure Control
350' – 6808'	11" 3000# Ram Type BOP 11" 3000# Annular BOP

D,E Proposed Casing and Cementing Program

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Type</u>	<u>Connection</u>	<u>Weight</u>
Surface	350'	12.25"	8.625"	J-55	ST&C	24#
Production	6808'	7.875"	5.50"	J-55	LT&C	15.5#

<u>Surface</u>	<u>Type & Amount</u>
----------------	--------------------------

0' – 350'
Approximately 225 SX Premium Plus (Class G) + additives or a similar slurry with a minimum weight of 15.8 #/gal and approximate yield of 1.15 cuft/sx, minimum 24 hr compressive strength = 500 psi (Cement will be circulated to surface and topped off, if necessary).

<u>Production</u>	<u>Type & Amount</u>
-------------------	--------------------------

0' – 3500'
Lead: +/- 200 SX Premium Type V + additives or similar slurry with a minimum weight of 11.0 #/gal and approximate yield of 3.82 cuft/sx

3500' – 6808'
Tail: +/- 405 SX Premium Lite Tail + additives or similar slurry with a minimum weight of 13.1 #/gal and approximate yield of 1.70cuft/sk.

For production casing, actual cement volumes will be determined from the caliper log plus a minimum of 15% excess.

F Drilling Fluids Program

Interval	Weight	Viscosity	Fluid Loss	Remarks
0' – 350'	8.4 – 9.5	27	NC	DAP Mud
350'–6808'	8.4 – 9.5	27	NC	DAP Water

G Evaluation Program

Logging Program:	HRI-GR-SP with SDL-DSN-PE: surface casing to TD. Preserve samples from all show intervals.
Sampling:	10' dry cut samples: Douglas Creek to TD. Preserve samples From all show intervals.
Surveys:	As deemed necessary
Mud Logger:	As deemed necessary
Drill Stem Tests:	As deemed necessary
Cores:	As deemed necessary

H Anticipated Abnormal Pressures or Temperatures

No abnormal temperatures or pressures or other hazards are anticipated.

Shallow gas and/or water flows are possible below surface casing.

Maximum anticipated bottom hole pressure equals approximately 3363 psi* and maximum anticipated surface pressure equals approximately 1865**psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

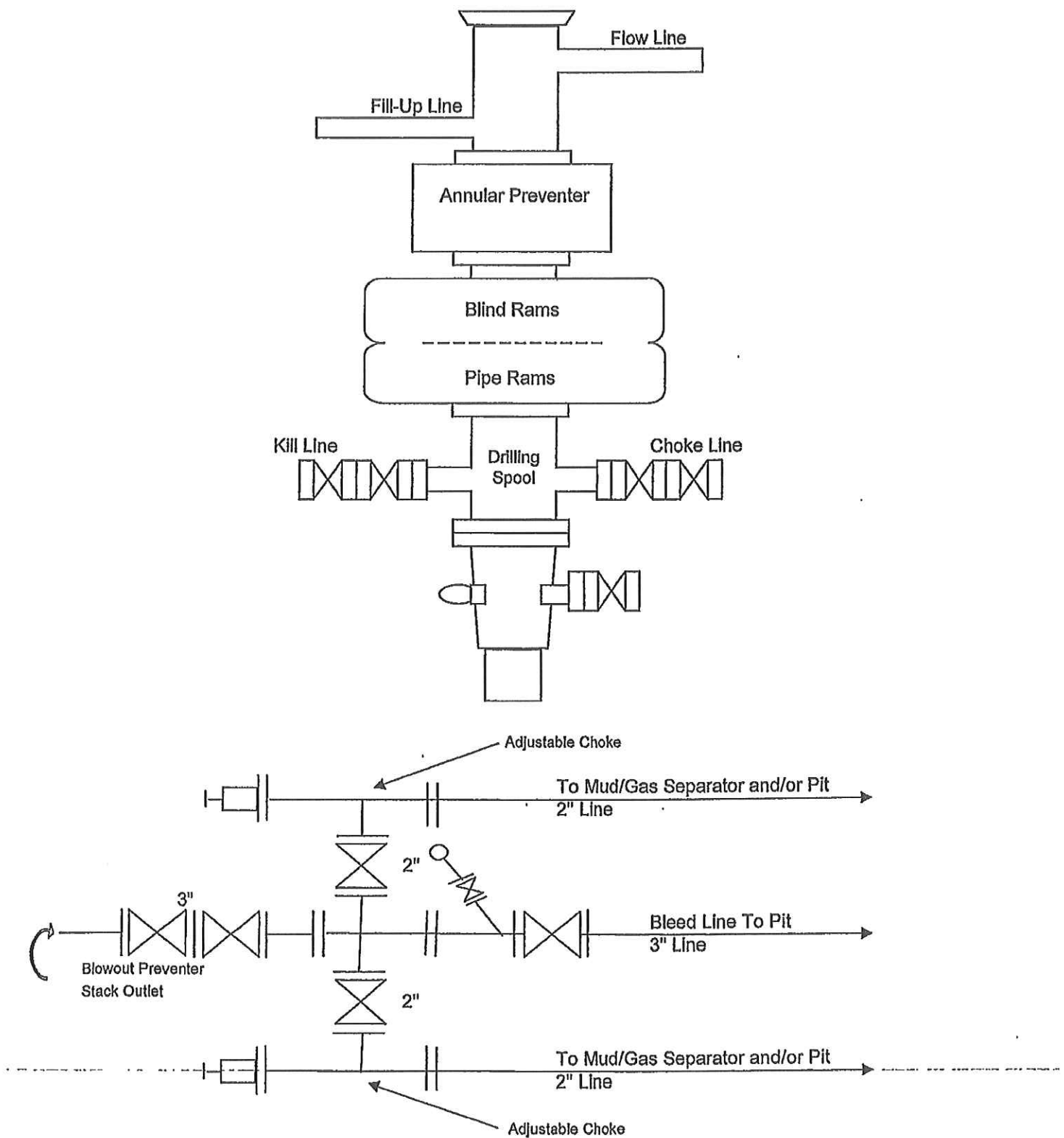
**Maximum surface pressure = A – (0.22xTD)

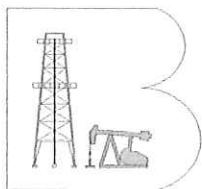
I Anticipated Starting Dates and Notification of Operations

Drilling Activity:

Anticipated Commencement Date:	Upon approval of the APD.
Drilling Days:	Approximately 10 days.
Completion Days:	Approximately 7 days.

SCHEMATIC DIAGRAM OF 3,000 PSI BOP STACK





Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.7-T6S-R4W

Federal 9-7D-64

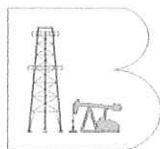
Wellbore #1

Plan: Design #3

Standard Planning Report

17 April, 2013

Archer



Project: Duchesne Co., UT (UT27C)
 Site: Sec.7-T6S-R4W
 Well: Federal 9-7D-64
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39° 58' 30.209 N
 Longitude: 110° 22' 29.179 W
 Ground Level: 7408.00
 WELL @ 7428.00usft (Original Well Elev)

Archer

PROJECT DETAILS: Duchesne Co., UT (UT27C)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302

System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 9-7D-64, True North
 Vertical (TVD) Reference: WELL @ 7428.00usft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 7428.00usft (Original Well Elev)
 Calculation Method: Minimum Curvature

WELL DETAILS: Federal 9-7D-64

+N/-S	+E/-W	Northing	Ground Level:	7408.00	Latitude	Longitude	Slot
0.00	0.00	599943.796	Easting	2315330.928	39° 58' 30.209 N	110° 22' 29.179 W	

DESIGN TARGET DETAILS

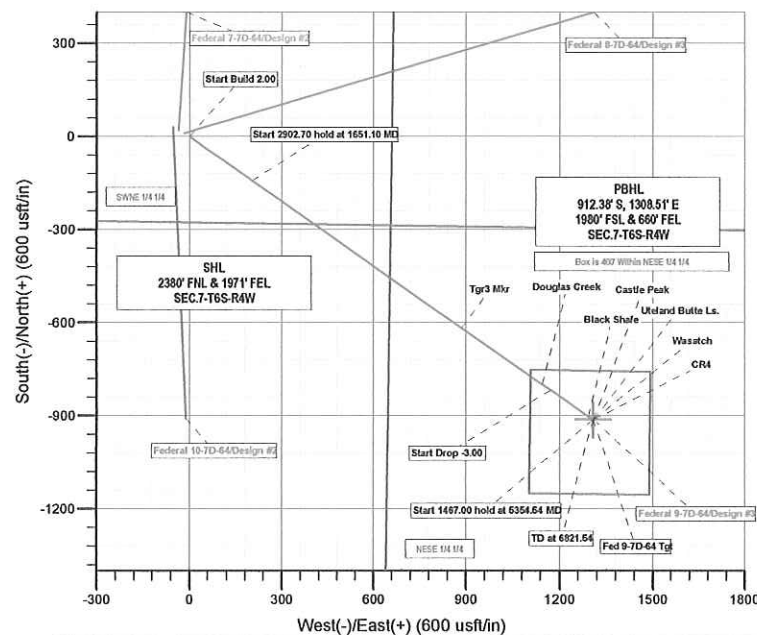
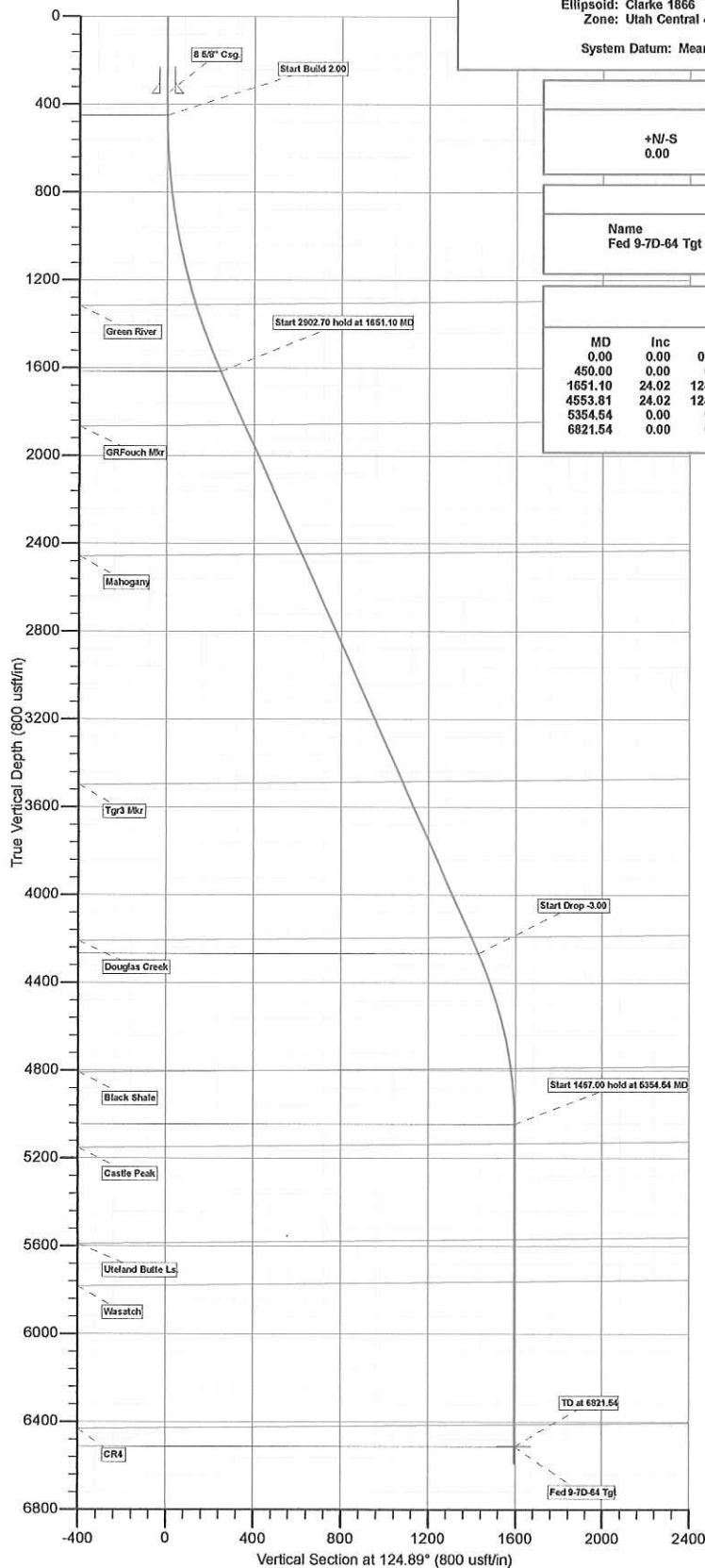
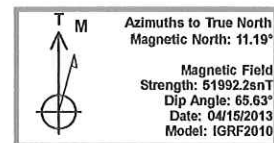
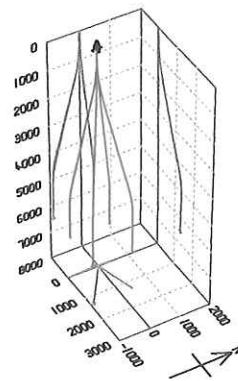
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Fed 9-7D-64 Tgt	6512.00	-912.38	1308.51	39° 58' 21.191 N	110° 22' 12.371 W	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1651.10	24.02	124.89	1616.22	-141.92	203.53	2.00	124.89	248.12	Start 2902.70 hold at 1651.10 MD
4553.81	24.02	124.89	4267.52	-817.77	1172.82	0.00	0.00	1429.78	Start Drop -3.00
5354.54	0.00	0.00	5045.00	-912.38	1308.51	3.00	180.00	1595.19	Start 1467.00 hold at 5354.54 MD
6821.54	0.00	0.00	6512.00	-912.38	1308.51	0.00	0.00	1595.19	TD at 6821.54

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1311.68	1325.23	Green River
1859.45	1917.40	GRFouch Mkr
2446.85	2560.49	Mahogany
3484.25	3696.26	Tgr3 Mkr
4193.11	4472.34	Douglas Creek
4788.30	5097.06	Black Shale
5132.13	5441.67	Castle Peak
5569.13	5878.67	Uteland Butte Ls.
5762.13	6071.67	Wasatch
6412.13	6721.67	CR4



Plan: Design #3 (Federal 9-7D-64/Wellbore #1)

Created By: Bret Wolford Date: 15:21, April 17 2013



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User Db
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Site: Sec.7-T6S-R4W
Well: Federal 9-7D-64
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Federal 9-7D-64
WELL @ 7428.00usft (Original Well Elev)
WELL @ 7428.00usft (Original Well Elev)
True
Minimum Curvature

Project	Duchesne Co., UT (UT27C)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Sec.7-T6S-R4W		
Site Position:		Northing:	601,943.869 usft
From:	Lat/Long	Easting:	2,315,290.072 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	39° 58' 49.980 N
		Longitude:	110° 22' 29.381 W
		Grid Convergence:	0.72 °

Well	Federal 9-7D-64		
Well Position	+N/-S	-2,000.43 usft	Northing:
	+E/-W	15.69 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	39° 58' 30.209 N
		Longitude:	110° 22' 29.179 W
		Ground Level:	7,408.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	04/15/13	11.19
			Dip Angle (°)
			65.63
			Field Strength (nT)
			51,992

Design	Design #3		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°)
			124.89

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,651.10	24.02	124.89	1,616.22	-141.92	203.53	2.00	2.00	0.00	124.89	
4,553.81	24.02	124.89	4,267.52	-817.77	1,172.82	0.00	0.00	0.00	0.00	
5,354.54	0.00	0.00	5,045.00	-912.38	1,308.51	3.00	-3.00	0.00	180.00	
6,821.54	0.00	0.00	6,512.00	-912.38	1,308.51	0.00	0.00	0.00	0.00	



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User Db
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Site: Sec.7-T6S-R4W
Well: Federal 9-7D-64
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Federal 9-7D-64
WELL @ 7428.00usft (Original Well Elev)
WELL @ 7428.00usft (Original Well Elev)
True
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8" Csg.									
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.00	124.89	500.00	-0.25	0.36	0.44	2.00	2.00	0.00
600.00	3.00	124.89	599.93	-2.25	3.22	3.93	2.00	2.00	0.00
700.00	5.00	124.89	699.68	-6.24	8.94	10.90	2.00	2.00	0.00
800.00	7.00	124.89	799.13	-12.21	17.52	21.35	2.00	2.00	0.00
900.00	9.00	124.89	898.15	-20.17	28.93	35.27	2.00	2.00	0.00
1,000.00	11.00	124.89	996.63	-30.10	43.17	52.63	2.00	2.00	0.00
1,100.00	13.00	124.89	1,094.44	-42.00	60.23	73.42	2.00	2.00	0.00
1,200.00	15.00	124.89	1,191.46	-55.83	80.07	97.62	2.00	2.00	0.00
1,300.00	17.00	124.89	1,287.58	-71.60	102.68	125.18	2.00	2.00	0.00
Green River									
1,325.23	17.50	124.89	1,311.68	-75.88	108.82	132.66	2.00	2.00	0.00
1,400.00	19.00	124.89	1,382.68	-89.27	128.03	156.08	2.00	2.00	0.00
1,500.00	21.00	124.89	1,476.65	-108.83	156.08	190.28	2.00	2.00	0.00
1,600.00	23.00	124.89	1,569.36	-130.26	186.81	227.74	2.00	2.00	0.00
Start 2902.70 hold at 1651.10 MD									
1,651.10	24.02	124.89	1,616.22	-141.92	203.53	248.12	2.00	2.00	0.00
1,700.00	24.02	124.89	1,660.88	-153.30	219.86	268.03	0.00	0.00	0.00
1,800.00	24.02	124.89	1,752.22	-176.58	253.25	308.74	0.00	0.00	0.00
1,900.00	24.02	124.89	1,843.56	-199.87	286.64	349.45	0.00	0.00	0.00
GRFouch Mkr									
1,917.40	24.02	124.89	1,859.45	-203.92	292.45	356.53	0.00	0.00	0.00
2,000.00	24.02	124.89	1,934.90	-223.15	320.04	390.15	0.00	0.00	0.00
2,100.00	24.02	124.89	2,026.24	-246.44	353.43	430.86	0.00	0.00	0.00
2,200.00	24.02	124.89	2,117.58	-269.72	386.82	471.57	0.00	0.00	0.00
2,300.00	24.02	124.89	2,208.92	-293.00	420.22	512.28	0.00	0.00	0.00
2,400.00	24.02	124.89	2,300.26	-316.29	453.61	552.99	0.00	0.00	0.00
2,500.00	24.02	124.89	2,391.60	-339.57	487.00	593.70	0.00	0.00	0.00
Mahogany									
2,560.49	24.02	124.89	2,446.85	-353.66	507.20	618.32	0.00	0.00	0.00
2,600.00	24.02	124.89	2,482.93	-362.85	520.39	634.41	0.00	0.00	0.00
2,700.00	24.02	124.89	2,574.27	-386.14	553.79	675.12	0.00	0.00	0.00
2,800.00	24.02	124.89	2,665.61	-409.42	587.18	715.83	0.00	0.00	0.00
2,900.00	24.02	124.89	2,756.95	-432.71	620.57	756.53	0.00	0.00	0.00
3,000.00	24.02	124.89	2,848.29	-455.99	653.96	797.24	0.00	0.00	0.00
3,100.00	24.02	124.89	2,939.63	-479.27	687.36	837.95	0.00	0.00	0.00
3,200.00	24.02	124.89	3,030.97	-502.56	720.75	878.66	0.00	0.00	0.00
3,300.00	24.02	124.89	3,122.31	-525.84	754.14	919.37	0.00	0.00	0.00
3,400.00	24.02	124.89	3,213.65	-549.12	787.54	960.08	0.00	0.00	0.00
3,500.00	24.02	124.89	3,304.98	-572.41	820.93	1,000.79	0.00	0.00	0.00
3,600.00	24.02	124.89	3,396.32	-595.69	854.32	1,041.50	0.00	0.00	0.00
Tgr3 Mkr									
3,696.26	24.02	124.89	3,484.25	-618.11	886.47	1,080.68	0.00	0.00	0.00
3,700.00	24.02	124.89	3,487.66	-618.98	887.71	1,082.20	0.00	0.00	0.00
3,800.00	24.02	124.89	3,579.00	-642.26	921.11	1,122.91	0.00	0.00	0.00



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User Db
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Site: Sec.7-T6S-R4W
Well: Federal 9-7D-64
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Federal 9-7D-64
WELL @ 7428.00usft (Original Well Elev)
WELL @ 7428.00usft (Original Well Elev)
True
Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	24.02	124.89	3,670.34	-665.54	954.50	1,163.62	0.00	0.00	0.00
4,000.00	24.02	124.89	3,761.68	-688.83	987.89	1,204.33	0.00	0.00	0.00
4,100.00	24.02	124.89	3,853.02	-712.11	1,021.28	1,245.04	0.00	0.00	0.00
4,200.00	24.02	124.89	3,944.36	-735.39	1,054.68	1,285.75	0.00	0.00	0.00
4,300.00	24.02	124.89	4,035.70	-758.68	1,088.07	1,326.46	0.00	0.00	0.00
4,400.00	24.02	124.89	4,127.03	-781.96	1,121.46	1,367.17	0.00	0.00	0.00
Douglas Creek									
4,472.34	24.02	124.89	4,193.11	-798.80	1,145.62	1,396.61	0.00	0.00	0.00
4,500.00	24.02	124.89	4,218.37	-805.25	1,154.86	1,407.88	0.00	0.00	0.00
Start Drop -3.00									
4,553.81	24.02	124.89	4,267.52	-817.77	1,172.82	1,429.78	0.00	0.00	0.00
4,600.00	22.64	124.89	4,309.94	-828.24	1,187.83	1,448.07	3.00	-3.00	0.00
4,700.00	19.64	124.89	4,403.20	-848.86	1,217.40	1,484.13	3.00	-3.00	0.00
4,800.00	16.64	124.89	4,498.22	-866.66	1,242.93	1,515.25	3.00	-3.00	0.00
4,900.00	13.64	124.89	4,594.74	-881.59	1,264.35	1,541.36	3.00	-3.00	0.00
5,000.00	10.64	124.89	4,692.49	-893.62	1,281.59	1,562.38	3.00	-3.00	0.00
Black Shale									
5,097.06	7.72	124.89	4,788.30	-902.47	1,294.30	1,577.86	3.00	-3.00	0.00
5,100.00	7.64	124.89	4,791.21	-902.70	1,294.62	1,578.26	3.00	-3.00	0.00
5,200.00	4.64	124.89	4,890.63	-908.81	1,303.38	1,588.94	3.00	-3.00	0.00
5,300.00	1.64	124.89	4,990.47	-911.94	1,307.87	1,594.42	3.00	-3.00	0.00
Start 1467.00 hold at 5354.54 MD									
5,354.54	0.00	0.00	5,045.00	-912.38	1,308.51	1,595.19	3.00	-3.00	0.00
5,400.00	0.00	0.00	5,090.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
Castle Peak									
5,441.67	0.00	0.00	5,132.13	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
5,500.00	0.00	0.00	5,190.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
5,600.00	0.00	0.00	5,290.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
5,700.00	0.00	0.00	5,390.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
5,800.00	0.00	0.00	5,490.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
Uteland Butte Ls.									
5,878.67	0.00	0.00	5,569.13	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
5,900.00	0.00	0.00	5,590.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,000.00	0.00	0.00	5,690.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
Wasatch									
6,071.67	0.00	0.00	5,762.13	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,100.00	0.00	0.00	5,790.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,200.00	0.00	0.00	5,890.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,300.00	0.00	0.00	5,990.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,400.00	0.00	0.00	6,090.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,500.00	0.00	0.00	6,190.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,600.00	0.00	0.00	6,290.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,700.00	0.00	0.00	6,390.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
CR4									
6,721.67	0.00	0.00	6,412.13	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
6,800.00	0.00	0.00	6,490.46	-912.38	1,308.51	1,595.19	0.00	0.00	0.00
TD at 6821.54 - Fed 9-7D-64 Tgt									
6,821.54	0.00	0.00	6,512.00	-912.38	1,308.51	1,595.19	0.00	0.00	0.00



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User Db
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Site: Sec.7-T6S-R4W
Well: Federal 9-7D-64
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Federal 9-7D-64
WELL @ 7428.00usft (Original Well Elev)
WELL @ 7428.00usft (Original Well Elev)
True
Minimum Curvature

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
Fed 9-7D-64 Tgt	0.00	0.00	6,512.00	-912.38	1,308.51	599,047.945	2,316,650.813	39° 58' 21.191 N	110° 22' 12.371 W
- plan hits target center									
- Point									

Casing Points

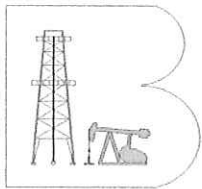
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
350.00	350.00	8 5/8" Csg.	8-5/8	11

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,325.23	1,313.00	Green River		-0.57	124.89
1,917.40	1,863.00	GRFouch Mkr		-0.57	124.89
2,560.49	2,453.00	Mahogany		-0.57	124.89
3,696.26	3,495.00	Tgr3 Mkr		-0.57	124.89
4,472.34	4,207.00	Douglas Creek		-0.57	124.89
5,097.06	4,804.00	Black Shale		-0.57	124.89
5,441.67	5,148.00	Castle Peak		-0.57	124.89
5,878.67	5,585.00	Uteland Butte Ls.		-0.57	124.89
6,071.67	5,778.00	Wasatch		-0.57	124.89
6,721.67	6,428.00	CR4		-0.57	124.89

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
450.00	450.00	0.00	0.00	Start Build 2.00
1,651.10	1,616.22	-141.92	203.53	Start 2902.70 hold at 1651.10 MD
4,553.81	4,267.52	-817.77	1,172.82	Start Drop -3.00
5,354.54	5,045.00	-912.38	1,308.51	Start 1467.00 hold at 5354.54 MD
6,821.54	6,512.00	-912.38	1,308.51	TD at 6821.54



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.7-T6S-R4W

Federal 9-7D-64

Wellbore #1

Design #3

Anticollision Report

17 April, 2013

Archer



Archer

Anticollision Report

Archer

Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #3	Offset TVD Reference:	Reference Datum

Reference	Design #3
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 9,999.98 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program	Date	04/17/13
From (usft)	To (usft)	Survey (Wellbore)
0.00	6,821.54	Design #3 (Wellbore #1)
		Tool Name
		MWD
		Description
		MWD - Standard

Summary							
Site Name Offset Well - Wellbore - Design	Reference Measured	Offset Measured	Distance		Separation Factor	Warning	
	Depth (usft)	Depth (usft)	Between Centres (usft)	Between Ellipses (usft)			
Sec.7-T6S-R4W							
Federal 10-7D-64 - Wellbore #1 - Design #2	450.00	450.00	60.63	58.88	34.582	CC, ES	
Federal 10-7D-64 - Wellbore #1 - Design #2	900.00	902.37	83.96	80.32	23.065	SF	
Federal 7-7D-64 - Wellbore #1 - Design #2	450.00	450.00	40.00	38.24	22.813	CC, ES	
Federal 7-7D-64 - Wellbore #1 - Design #2	600.00	599.12	45.24	42.85	18.945	SF	
Federal 8-7D-64 - Wellbore #1 - Design #3	450.00	450.00	20.63	18.88	11.769	CC	
Federal 8-7D-64 - Wellbore #1 - Design #3	500.00	500.25	20.77	18.80	10.578	ES	
Federal 8-7D-64 - Wellbore #1 - Design #3	700.00	700.90	25.47	22.67	9.109	SF	

Offset Design	Sec.7-T6S-R4W - Federal 10-7D-64 - Wellbore #1 - Design #2										Offset Site Error:	0.00 usft
Survey Program:	0-MWD										Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	0.00	0.00	0.00	0.00	-60.88	29.50	-52.97	60.63	60.45	0.18	337.178
100.00	100.00	100.00	100.00	0.09	0.09	-60.88	29.50	-52.97	60.63	60.00	0.63	96.337
200.00	200.00	200.00	200.00	0.31	0.31	-60.88	29.50	-52.97	60.63	59.55	1.08	56.196
300.00	300.00	300.00	300.00	0.54	0.54	-60.88	29.50	-52.97	60.63	59.10	1.53	39.668
400.00	400.00	400.00	400.00	0.76	0.76	-60.88	29.50	-52.97	60.63	58.88	1.75	34.582 CC, ES
450.00	450.00	450.00	450.00	0.88	0.88	-60.88	29.50	-52.97	60.63	58.88	1.75	34.582 CC, ES
500.00	500.00	500.42	500.42	0.98	0.98	-61.11	29.17	-52.95	60.89	58.94	1.95	31.160
600.00	599.93	601.21	601.17	1.17	1.16	-62.84	26.51	-52.83	63.01	60.68	2.33	27.048
700.00	699.68	701.86	701.68	1.39	1.36	-65.96	21.21	-52.59	67.41	64.68	2.73	24.655
800.00	799.13	802.27	801.77	1.63	1.58	-69.92	13.29	-52.24	74.32	71.15	3.17	23.458
900.00	898.15	902.37	901.31	1.92	1.83	-74.13	2.78	-51.77	83.96	80.32	3.64	23.065 SF
1,000.00	996.63	1,002.04	1,000.12	2.25	2.11	-78.13	-10.28	-51.18	96.48	92.32	4.16	23.180
1,100.00	1,094.44	1,101.22	1,098.07	2.63	2.42	-81.69	-25.82	-50.49	111.95	107.20	4.75	23.582
1,200.00	1,191.46	1,199.82	1,195.01	3.08	2.77	-84.69	-43.78	-49.68	130.36	124.95	5.41	24.116
1,300.00	1,287.58	1,297.75	1,290.81	3.60	3.16	-87.16	-64.09	-48.77	151.67	145.53	6.15	24.682
1,400.00	1,382.68	1,394.78	1,385.27	4.18	3.57	-89.02	-86.25	-47.78	175.85	168.89	6.96	25.260
1,500.00	1,476.65	1,491.01	1,478.90	4.84	4.00	-89.89	-108.45	-46.78	202.88	195.06	7.82	25.938
1,600.00	1,569.36	1,586.48	1,571.78	5.57	4.44	-90.05	-130.47	-45.80	232.62	223.91	8.71	26.699
1,651.10	1,616.22	1,634.93	1,618.93	5.98	4.66	-89.94	-141.65	-45.30	248.84	239.66	9.18	27.114
1,700.00	1,660.88	1,681.18	1,663.93	6.37	4.88	-89.79	-152.32	-44.82	264.70	255.06	9.64	27.459
1,800.00	1,752.22	1,775.77	1,755.96	7.20	5.32	-89.53	-174.14	-43.84	297.12	286.53	10.60	28.040

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Archer

Anticollision Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #3	Offset TVD Reference:	Reference Datum

Offset Design Sec.7-T6S-R4W - Federal 10-7D-64 - Wellbore #1 - Design #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Azimuth from North (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
1,900.00	1,843.56	1,870.36	1,847.99	8.03	5.77	-89.32	-195.96	-42.86	329.56	317.99	11.57	28.496		
2,000.00	1,934.90	1,964.94	1,940.02	8.87	6.21	-89.15	-217.78	-41.88	362.00	349.45	12.54	28.861		
2,100.00	2,026.24	2,059.53	2,032.05	9.72	6.67	-89.01	-239.60	-40.91	394.44	380.91	13.53	29.158		
2,200.00	2,117.58	2,154.12	2,124.08	10.57	7.12	-88.89	-261.42	-39.93	426.88	412.36	14.52	29.404		
2,300.00	2,208.92	2,248.70	2,216.11	11.42	7.57	-88.78	-283.24	-38.95	459.33	443.81	15.51	29.609		
2,400.00	2,300.26	2,343.29	2,308.14	12.28	8.03	-88.69	-305.06	-37.97	491.77	475.26	16.51	29.784		
2,500.00	2,391.60	2,437.88	2,400.17	13.13	8.49	-88.61	-326.88	-36.99	524.22	506.71	17.51	29.933		
2,600.00	2,482.93	2,532.46	2,492.20	13.99	8.95	-88.54	-348.70	-36.02	556.67	538.15	18.52	30.063		
2,700.00	2,574.27	2,627.05	2,584.23	14.86	9.41	-88.48	-370.51	-35.04	589.12	569.59	19.52	30.175		
2,800.00	2,665.61	2,721.64	2,676.26	15.72	9.86	-88.42	-392.33	-34.06	621.57	601.03	20.53	30.274		
2,900.00	2,756.95	2,816.22	2,768.30	16.58	10.33	-88.37	-414.15	-33.08	654.02	632.47	21.54	30.362		
3,000.00	2,848.29	2,910.81	2,860.33	17.45	10.79	-88.33	-435.97	-32.10	686.47	663.91	22.55	30.439		
3,100.00	2,939.63	3,005.40	2,952.36	18.31	11.25	-88.29	-457.79	-31.13	718.92	695.35	23.56	30.509		
3,200.00	3,030.97	3,099.98	3,044.39	19.18	11.71	-88.25	-479.61	-30.15	751.37	726.79	24.58	30.572		
3,300.00	3,122.31	3,194.57	3,136.42	20.04	12.17	-88.22	-501.43	-29.17	783.82	758.23	25.59	30.628		
3,400.00	3,213.65	3,289.16	3,228.45	20.91	12.63	-88.18	-523.25	-28.19	816.27	789.67	26.61	30.679		
3,500.00	3,304.98	3,383.74	3,320.48	21.77	13.10	-88.15	-545.07	-27.21	848.72	821.10	27.62	30.726		
3,600.00	3,396.32	3,478.33	3,412.51	22.64	13.56	-88.13	-566.89	-26.24	881.18	852.54	28.64	30.769		
3,700.00	3,487.66	3,572.92	3,504.54	23.51	14.02	-88.10	-588.71	-25.26	913.63	883.97	29.66	30.808		
3,800.00	3,579.00	3,667.50	3,596.57	24.38	14.48	-88.08	-610.53	-24.28	946.08	915.41	30.67	30.844		
3,900.00	3,670.34	3,762.09	3,688.60	25.25	14.95	-88.06	-632.35	-23.30	978.54	946.84	31.69	30.877		
4,000.00	3,761.68	3,856.68	3,780.63	26.11	15.41	-88.04	-654.17	-22.32	1,010.99	978.28	32.71	30.908		
4,100.00	3,853.02	3,951.27	3,872.66	26.98	15.87	-88.02	-675.99	-21.35	1,043.44	1,009.71	33.73	30.936		
4,200.00	3,944.36	4,045.85	3,964.69	27.85	16.34	-88.00	-697.81	-20.37	1,075.90	1,041.15	34.75	30.963		
4,300.00	4,035.70	4,140.44	4,056.72	28.72	16.80	-87.98	-719.63	-19.39	1,108.35	1,072.58	35.77	30.987		
4,400.00	4,127.03	4,235.03	4,148.75	29.59	17.27	-87.96	-741.45	-18.41	1,140.80	1,104.01	36.79	31.010		
4,500.00	4,218.37	4,329.61	4,240.78	30.46	17.73	-87.95	-763.27	-17.43	1,173.26	1,135.45	37.81	31.032		
4,553.81	4,267.52	4,380.51	4,290.30	30.93	17.98	-87.94	-775.01	-16.91	1,190.72	1,152.36	38.36	31.043		
4,600.00	4,309.94	4,424.34	4,332.95	31.28	18.20	-87.95	-785.13	-16.46	1,205.28	1,166.44	38.83	31.037		
4,700.00	4,403.20	4,519.93	4,425.96	31.89	18.66	-88.06	-807.17	-15.47	1,233.79	1,193.99	39.80	31.004		
4,800.00	4,498.22	4,614.37	4,518.15	32.41	19.03	-88.22	-827.62	-14.55	1,258.25	1,217.63	40.62	30.975		
4,900.00	4,594.74	4,709.75	4,611.74	32.86	19.32	-88.40	-845.96	-13.73	1,278.69	1,237.38	41.31	30.954		
5,000.00	4,692.49	4,805.93	4,706.56	33.22	19.60	-88.60	-862.08	-13.01	1,295.06	1,253.15	41.91	30.903		
5,100.00	4,791.21	4,902.79	4,802.42	33.50	19.84	-88.83	-875.90	-12.39	1,307.33	1,264.92	42.41	30.824		
5,200.00	4,890.63	5,000.00	4,898.96	33.70	20.07	-89.06	-887.32	-11.88	1,315.46	1,272.64	42.82	30.719		
5,300.00	4,990.47	5,097.88	4,996.42	33.83	20.27	-89.32	-896.34	-11.47	1,319.45	1,276.31	43.14	30.587		
5,354.54	5,045.00	5,151.29	5,049.68	33.87	20.36	-89.47	-900.21	-11.30	1,319.87	1,276.60	43.27	30.501		
5,400.00	5,090.46	5,195.85	5,094.16	33.90	20.43	-89.59	-902.87	-11.18	1,319.73	1,276.30	43.43	30.387		
5,500.00	5,190.46	5,294.05	5,192.28	33.97	20.57	-89.76	-906.89	-11.00	1,319.52	1,275.80	43.72	30.183		
5,600.00	5,290.46	5,392.40	5,290.61	34.03	20.70	-89.83	-908.40	-10.93	1,319.45	1,275.49	43.95	30.019		
5,636.85	5,327.31	5,429.09	5,327.31	34.06	20.74	-89.83	-908.41	-10.93	1,319.45	1,275.42	44.03	29.968		
5,700.00	5,390.46	5,492.24	5,390.46	34.10	20.81	-89.83	-908.41	-10.93	1,319.45	1,275.29	44.16	29.881		
5,800.00	5,490.46	5,592.24	5,490.46	34.17	20.91	-89.83	-908.41	-10.93	1,319.45	1,275.10	44.35	29.751		
5,900.00	5,590.46	5,692.24	5,590.46	34.24	21.01	-89.83	-908.41	-10.93	1,319.45	1,274.90	44.54	29.621		
6,000.00	5,690.46	5,792.24	5,690.46	34.31	21.12	-89.83	-908.41	-10.93	1,319.45	1,274.70	44.74	29.489		
6,100.00	5,790.46	5,892.24	5,790.46	34.39	21.22	-89.83	-908.41	-10.93	1,319.45	1,274.50	44.95	29.356		
6,200.00	5,890.46	5,992.24	5,890.46	34.46	21.33	-89.83	-908.41	-10.93	1,319.45	1,274.29	45.15	29.222		
6,300.00	5,990.46	6,092.24	5,990.46	34.54	21.44	-89.83	-908.41	-10.93	1,319.45	1,274.08	45.36	29.087		
6,400.00	6,090.46	6,192.24	6,090.46	34.62	21.55	-89.83	-908.41	-10.93	1,319.45	1,273.87	45.58	28.951		
6,500.00	6,190.46	6,292.24	6,190.46	34.70	21.66	-89.83	-908.41	-10.93	1,319.45	1,273.65	45.79	28.814		
6,600.00	6,290.46	6,392.24	6,290.46	34.78	21.77	-89.83	-908.41	-10.93	1,319.45	1,273.43	46.01	28.676		
6,700.00	6,390.46	6,492.24	6,390.46	34.86	21.89	-89.83	-908.41	-10.93	1,319.45	1,273.21	46.24	28.538		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Archer
Anticollision Report

Archer

Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Reference Site: Sec.7-T6S-R4W
Site Error: 0.00 usft
Reference Well: Federal 9-7D-64
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well Federal 9-7D-64
TVD Reference: WELL @ 7428.00usft (Original Well Elev)
MD Reference: WELL @ 7428.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Reference Datum

Offset Design Sec.7-T6S-R4W - Federal 10-7D-64 - Wellbore #1 - Design #2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,764.74	6,455.20	6,556.99	6,455.20	34.91	21.97	-89.83	-908.41	-10.93	1,319.45	1,273.06	46.38	28.447	
6,800.00	6,490.46	6,586.79	6,485.00	34.94	22.00	-89.83	-908.41	-10.93	1,319.46	1,273.00	46.46	28.403	
6,821.54	6,512.00	6,586.79	6,485.00	34.96	22.00	-89.83	-908.41	-10.93	1,319.72	1,273.24	46.48	28.394	



Archer

Anticollision Report



Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Reference Site: Sec.7-T6S-R4W
Site Error: 0.00 usft
Reference Well: Federal 9-7D-64
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well Federal 9-7D-64
TVD Reference: WELL @ 7428.00usft (Original Well Elev)
MD Reference: WELL @ 7428.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Reference Datum

Offset Design Sec.7-T6S-R4W - Federal 7-7D-64 - Wellbore #1 - Design #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance			Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-61.15	19.30	-35.03	40.00					
100.00	100.00	100.00	100.00	0.09	0.09	-61.15	19.30	-35.03	40.00	39.82	0.18	222.429		
200.00	200.00	200.00	200.00	0.31	0.31	-61.15	19.30	-35.03	40.00	39.37	0.63	63.551		
300.00	300.00	300.00	300.00	0.54	0.54	-61.15	19.30	-35.03	40.00	38.92	1.08	37.072		
400.00	400.00	400.00	400.00	0.76	0.76	-61.15	19.30	-35.03	40.00	38.47	1.53	26.168		
450.00	450.00	450.00	450.00	0.88	0.88	-61.15	19.30	-35.03	40.00	38.24	1.75	22.813 CC, ES		
500.00	500.00	499.77	499.77	0.98	0.99	-60.67	19.62	-35.01	40.57	38.60	1.97	20.620		
600.00	599.93	599.12	599.08	1.17	1.21	-57.28	22.20	-34.84	45.24	42.85	2.39	18.945 SF		
700.00	699.68	697.87	697.70	1.39	1.44	-52.31	27.32	-34.49	54.93	52.10	2.83	19.438		
800.00	799.13	795.83	795.36	1.63	1.67	-47.56	34.88	-33.99	69.89	66.61	3.28	21.318		
900.00	898.15	893.87	893.04	1.92	1.91	-44.49	43.30	-33.43	89.13	85.40	3.73	23.883		
1,000.00	996.63	991.21	990.01	2.25	2.16	-42.92	51.67	-32.87	111.86	107.67	4.19	26.699		
1,100.00	1,094.44	1,087.73	1,086.17	2.63	2.40	-42.23	59.97	-32.31	137.94	133.29	4.65	29.647		
1,200.00	1,191.46	1,183.32	1,181.41	3.08	2.65	-42.04	68.18	-31.76	167.29	162.17	5.12	32.667		
1,300.00	1,287.58	1,277.86	1,275.60	3.60	2.90	-42.15	76.31	-31.22	199.87	194.28	5.59	35.726		
1,400.00	1,382.68	1,371.23	1,368.62	4.18	3.15	-42.43	84.33	-30.68	235.64	229.57	6.07	38.809		
1,500.00	1,476.65	1,463.33	1,460.37	4.84	3.39	-42.80	92.25	-30.15	274.56	268.00	6.56	41.873		
1,600.00	1,569.36	1,554.03	1,550.74	5.57	3.63	-43.22	100.05	-29.63	316.59	309.55	7.04	44.963		
1,651.10	1,616.22	1,599.81	1,596.35	5.98	3.75	-43.44	103.98	-29.37	339.27	331.98	7.29	46.535		
1,700.00	1,660.88	1,643.42	1,639.80	6.37	3.87	-43.65	107.73	-29.12	361.35	353.79	7.56	47.828		
1,800.00	1,752.22	1,732.61	1,728.66	7.20	4.10	-43.99	115.40	-28.60	406.51	398.41	8.10	50.178		
1,900.00	1,843.56	1,821.80	1,817.52	8.03	4.34	-44.26	123.06	-28.09	451.69	443.03	8.65	52.193		
2,000.00	1,934.90	1,910.99	1,908.37	8.87	4.58	-44.49	130.73	-27.58	496.87	487.66	9.21	53.938		
2,100.00	2,026.24	2,000.18	1,995.23	9.72	4.82	-44.68	138.40	-27.07	542.07	532.29	9.77	55.461		
2,200.00	2,117.58	2,089.37	2,084.09	10.57	5.06	-44.83	146.06	-26.55	587.26	576.92	10.34	56.799		
2,300.00	2,208.92	2,178.56	2,172.95	11.42	5.30	-44.97	153.73	-26.04	632.46	621.55	10.91	57.984		
2,400.00	2,300.26	2,267.75	2,261.81	12.28	5.54	-45.09	161.40	-25.53	677.67	666.19	11.48	59.039		
2,500.00	2,391.60	2,356.94	2,350.67	13.13	5.78	-45.19	169.06	-25.02	722.87	710.82	12.05	59.983		
2,600.00	2,482.93	2,446.13	2,439.52	13.99	6.02	-45.28	176.73	-24.50	768.08	755.45	12.63	60.834		
2,700.00	2,574.27	2,535.32	2,528.38	14.86	6.26	-45.36	184.39	-23.99	813.29	800.09	13.20	61.603		
2,800.00	2,665.61	2,624.51	2,617.24	15.72	6.50	-45.43	192.06	-23.48	858.50	844.72	13.78	62.302		
2,900.00	2,756.95	2,713.70	2,706.10	16.58	6.74	-45.50	199.73	-22.97	903.71	889.35	14.36	62.940		
3,000.00	2,848.29	2,802.89	2,794.96	17.45	6.98	-45.56	207.39	-22.45	948.93	933.99	14.94	63.523		
3,100.00	2,939.63	2,892.08	2,883.82	18.31	7.22	-45.61	215.06	-21.94	994.14	978.62	15.52	64.059		
3,200.00	3,030.97	2,981.27	2,972.67	19.18	7.46	-45.66	222.73	-21.43	1,039.36	1,023.26	16.10	64.552		
3,300.00	3,122.31	3,070.46	3,061.53	20.04	7.70	-45.70	230.39	-20.91	1,084.57	1,067.89	16.68	65.008		
3,400.00	3,213.65	3,159.65	3,150.39	20.91	7.95	-45.75	238.06	-20.40	1,129.79	1,112.52	17.27	65.431		
3,500.00	3,304.98	3,248.84	3,239.25	21.77	8.19	-45.78	245.73	-19.89	1,175.01	1,157.15	17.85	65.823		
3,600.00	3,396.32	3,338.03	3,328.11	22.64	8.43	-45.82	253.39	-19.38	1,220.22	1,201.79	18.44	66.188		
3,700.00	3,487.66	3,427.22	3,416.97	23.51	8.67	-45.85	261.06	-18.86	1,265.44	1,246.42	19.02	66.529		
3,800.00	3,579.00	3,516.41	3,505.82	24.38	8.91	-45.88	268.72	-18.35	1,310.66	1,291.05	19.61	66.847		
3,900.00	3,670.34	3,605.60	3,594.68	25.25	9.15	-45.91	276.39	-17.84	1,355.88	1,335.69	20.19	67.146		
4,000.00	3,761.68	3,694.79	3,683.54	26.11	9.39	-45.94	284.06	-17.33	1,401.10	1,380.32	20.78	67.426		
4,100.00	3,853.02	3,783.98	3,772.40	26.98	9.63	-45.96	291.72	-16.81	1,446.32	1,424.95	21.37	67.689		
4,200.00	3,944.36	3,873.17	3,861.26	27.85	9.88	-45.98	299.39	-16.30	1,491.54	1,469.58	21.95	67.937		
4,300.00	4,035.70	3,962.36	3,950.12	28.72	10.12	-46.01	307.06	-15.79	1,536.76	1,514.21	22.54	68.170		
4,400.00	4,127.03	4,051.55	4,038.97	29.59	10.36	-46.03	314.72	-15.28	1,581.98	1,558.84	23.13	68.390		
4,500.00	4,218.37	4,140.74	4,127.83	30.46	10.60	-46.05	322.39	-14.76	1,627.20	1,603.48	23.72	68.599		
4,553.81	4,267.52	4,188.73	4,175.64	30.93	10.73	-46.06	326.51	-14.49	1,651.53	1,627.49	24.04	68.706		
4,600.00	4,309.94	4,230.17	4,216.94	31.28	10.84	-46.06	330.08	-14.25	1,671.92	1,647.54	24.39	68.855		
4,700.00	4,403.20	4,321.48	4,307.91	31.89	11.09	-46.05	337.93	-13.72	1,712.66	1,687.57	25.09	68.266		
4,800.00	4,498.22	4,414.77	4,400.85	32.41	11.34	-46.01	345.94	-13.19	1,748.64	1,722.91	25.72	67.975		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Archer
Anticollision Report

Archer

Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #3	Offset TVD Reference:	Reference Datum

Offset Design Sec.7-T6S-R4W - Federal 7-7D-64 - Wellbore #1 - Design #2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,594.74	4,509.77	4,495.49	32.86	11.60	-45.94	354.11	-12.64	1,779.75	1,753.46	26.29	67.689	
5,000.00	4,692.49	4,606.23	4,591.59	33.22	11.86	-45.85	362.40	-12.09	1,805.93	1,779.14	26.79	67.412	
5,100.00	4,791.21	4,703.87	4,688.88	33.50	12.13	-45.73	370.79	-11.53	1,827.09	1,799.88	27.21	67.148	
5,200.00	4,890.63	4,802.44	4,787.08	33.70	12.39	-45.58	379.27	-10.96	1,843.19	1,815.64	27.55	66.896	
5,300.00	4,990.47	4,908.68	4,892.92	33.83	12.67	-45.39	388.34	-10.35	1,854.17	1,826.34	27.83	66.631	
5,354.54	5,045.00	4,988.43	4,972.47	33.87	12.83	-45.27	393.90	-9.98	1,857.44	1,829.48	27.96	66.434	
5,400.00	5,090.46	5,055.10	5,039.06	33.90	12.96	-45.19	397.29	-9.75	1,858.95	1,830.80	28.15	66.036	
5,500.00	5,190.46	5,202.06	5,185.97	33.97	13.21	-45.11	400.65	-9.53	1,860.46	1,831.92	28.54	65.187	
5,600.00	5,290.46	5,306.54	5,290.46	34.03	13.39	-45.11	400.67	-9.53	1,860.47	1,831.61	28.86	64.470	
5,700.00	5,390.46	5,406.54	5,390.46	34.10	13.58	-45.11	400.67	-9.53	1,860.47	1,831.27	29.19	63.731	
5,800.00	5,490.46	5,506.54	5,490.46	34.17	13.77	-45.11	400.67	-9.53	1,860.47	1,830.94	29.53	63.003	
5,900.00	5,590.46	5,606.54	5,590.46	34.24	13.96	-45.11	400.67	-9.53	1,860.47	1,830.60	29.87	62.285	
6,000.00	5,690.46	5,706.54	5,690.46	34.31	14.15	-45.11	400.67	-9.53	1,860.47	1,830.25	30.21	61.579	
6,100.00	5,790.46	5,806.54	5,790.46	34.39	14.35	-45.11	400.67	-9.53	1,860.47	1,829.91	30.56	60.883	
6,200.00	5,890.46	5,906.54	5,890.46	34.46	14.54	-45.11	400.67	-9.53	1,860.47	1,829.56	30.91	60.198	
6,300.00	5,990.46	6,006.54	5,990.46	34.54	14.74	-45.11	400.67	-9.53	1,860.47	1,829.21	31.26	59.524	
6,400.00	6,090.46	6,106.54	6,090.46	34.62	14.93	-45.11	400.67	-9.53	1,860.47	1,828.86	31.61	58.861	
6,500.00	6,190.46	6,206.54	6,190.46	34.70	15.13	-45.11	400.67	-9.53	1,860.47	1,828.50	31.96	58.208	
6,600.00	6,290.46	6,306.54	6,290.46	34.78	15.33	-45.11	400.67	-9.53	1,860.47	1,828.15	32.32	57.565	
6,700.00	6,390.46	6,406.54	6,390.46	34.86	15.53	-45.11	400.67	-9.53	1,860.47	1,827.79	32.68	56.933	
6,800.00	6,490.46	6,506.54	6,490.46	34.94	15.73	-45.11	400.67	-9.53	1,860.47	1,827.43	33.04	56.311	
6,821.54	6,512.00	6,528.09	6,512.00	34.96	15.77	-45.11	400.67	-9.53	1,860.47	1,827.35	33.12	56.179	



Archer

Anticollision Report

Archer

Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Reference Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Federal 9-7D-64	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.1 Single User Db
Reference Design:	Design #3	Offset TVD Reference:	Reference Datum

Sec.7-T6S-R4W - Federal 8-7D-64 - Wellbore #1 - Design #3													Offset Site Error:	0.00 usft	
Survey Program: 0-MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	-60.38	10.20	-17.94	20.63						
100.00	100.00	100.00	100.00	0.09	0.09	-60.38	10.20	-17.94	20.63	20.45	0.18	114.745			
200.00	200.00	200.00	200.00	0.31	0.31	-60.38	10.20	-17.94	20.63	20.00	0.63	32.784			
300.00	300.00	300.00	300.00	0.54	0.54	-60.38	10.20	-17.94	20.63	19.55	1.08	19.124			
400.00	400.00	400.00	400.00	0.76	0.76	-60.38	10.20	-17.94	20.63	19.10	1.53	13.499			
450.00	450.00	450.00	450.00	0.88	0.88	-60.38	10.20	-17.94	20.63	18.88	1.75	11.769 CC			
500.00	500.00	500.25	500.25	0.98	0.98	-59.39	10.32	-17.51	20.77	18.80	1.96	10.578 ES			
600.00	599.93	600.68	600.61	1.17	1.20	-52.00	11.31	-14.13	22.03	19.67	2.37	9.308			
700.00	699.68	700.90	700.58	1.39	1.43	-39.94	13.28	-7.40	25.47	22.67	2.80	9.109 SF			
800.00	799.13	800.78	799.90	1.63	1.68	-27.60	16.22	2.65	32.10	28.83	3.27	9.822			
900.00	898.15	900.18	898.33	1.92	1.96	-17.87	20.11	15.94	42.33	38.53	3.80	11.127			
1,000.00	996.63	998.99	995.64	2.25	2.28	-11.08	24.93	32.39	56.09	51.67	4.42	12.690			
1,100.00	1,094.44	1,097.07	1,091.59	2.63	2.66	-6.54	30.64	51.90	73.17	68.04	5.13	14.275			
1,200.00	1,191.46	1,194.32	1,185.98	3.08	3.08	-3.52	37.21	74.34	93.38	87.45	5.93	15.751			
1,300.00	1,287.58	1,290.63	1,278.62	3.60	3.56	-1.53	44.59	99.59	116.58	109.74	6.83	17.059			
1,400.00	1,382.68	1,385.90	1,369.34	4.18	4.10	-0.22	52.76	127.48	142.66	134.81	7.85	18.183			
1,500.00	1,476.65	1,480.24	1,458.19	4.84	4.69	0.62	61.67	157.93	171.51	162.55	8.96	19.138			
1,600.00	1,569.36	1,575.33	1,547.31	5.57	5.32	0.83	70.98	189.73	202.46	192.29	10.17	19.912			
1,651.10	1,616.22	1,623.70	1,592.65	5.98	5.65	0.62	75.71	205.90	218.91	208.11	10.80	20.264			
1,700.00	1,660.88	1,669.91	1,635.97	6.37	5.96	0.37	80.23	221.35	234.86	223.43	11.43	20.548			
1,800.00	1,752.22	1,764.41	1,724.55	7.20	6.61	-0.06	89.48	252.96	267.50	254.78	12.73	21.019			
1,900.00	1,843.56	1,858.91	1,813.13	8.03	7.27	-0.40	98.73	284.56	300.15	286.11	14.04	21.378			
2,000.00	1,934.90	1,953.42	1,901.71	8.87	7.93	-0.67	107.98	316.16	332.81	317.45	15.37	21.659			
2,100.00	2,026.24	2,047.92	1,990.29	9.72	8.60	-0.89	117.23	347.76	365.48	348.78	16.70	21.884			
2,200.00	2,117.58	2,142.42	2,078.87	10.57	9.26	-1.08	126.48	379.36	398.15	380.11	18.04	22.067			
2,300.00	2,208.92	2,236.93	2,167.45	11.42	9.93	-1.24	135.73	410.97	430.83	411.44	19.39	22.218			
2,400.00	2,300.26	2,331.43	2,256.03	12.28	10.61	-1.37	144.98	442.57	463.51	442.77	20.74	22.345			
2,500.00	2,391.60	2,425.93	2,344.61	13.13	11.28	-1.49	154.23	474.17	496.19	474.09	22.10	22.453			
2,600.00	2,482.93	2,520.43	2,433.19	13.99	11.96	-1.59	163.47	505.77	528.88	505.42	23.46	22.545			
2,700.00	2,574.27	2,614.94	2,521.78	14.86	12.63	-1.68	172.72	537.37	561.56	536.74	24.82	22.625			
2,800.00	2,665.61	2,709.44	2,610.36	15.72	13.31	-1.76	181.97	568.97	594.25	568.06	26.18	22.695			
2,900.00	2,756.95	2,803.94	2,698.94	16.58	13.99	-1.84	191.22	600.58	626.94	599.39	27.55	22.756			
3,000.00	2,848.29	2,898.45	2,787.52	17.45	14.67	-1.90	200.47	632.18	659.63	630.71	28.92	22.811			
3,100.00	2,939.63	2,992.95	2,876.10	18.31	15.35	-1.96	209.72	663.78	692.32	662.03	30.29	22.859			
3,200.00	3,030.97	3,087.45	2,964.68	19.18	16.03	-2.01	218.97	695.38	725.01	693.35	31.66	22.902			
3,300.00	3,122.31	3,181.96	3,053.26	20.04	16.71	-2.06	228.22	726.98	757.70	724.67	33.03	22.942			
3,400.00	3,213.65	3,276.46	3,141.84	20.91	17.39	-2.11	237.47	758.59	790.39	755.99	34.40	22.977			
3,500.00	3,304.98	3,370.96	3,230.42	21.77	18.07	-2.15	246.72	790.19	823.09	787.31	35.77	23.009			
3,600.00	3,396.32	3,465.46	3,319.00	22.64	18.75	-2.19	255.97	821.79	855.78	818.63	37.15	23.038			
3,700.00	3,487.66	3,559.97	3,407.58	23.51	19.43	-2.22	265.21	853.39	888.47	849.95	38.52	23.065			
3,800.00	3,579.00	3,654.47	3,496.17	24.38	20.11	-2.26	274.46	884.99	921.17	881.27	39.89	23.090			
3,900.00	3,670.34	3,748.97	3,584.75	25.25	20.80	-2.29	283.71	916.60	953.86	912.59	41.27	23.113			
4,000.00	3,761.68	3,843.48	3,673.33	26.11	21.48	-2.32	292.96	948.20	986.55	943.91	42.65	23.134			
4,100.00	3,853.02	3,937.98	3,761.91	26.98	22.16	-2.34	302.21	979.80	1,019.25	975.23	44.02	23.153			
4,200.00	3,944.36	4,032.48	3,850.49	27.85	22.85	-2.37	311.46	1,011.40	1,051.94	1,006.55	45.40	23.171			
4,300.00	4,035.70	4,126.98	3,939.07	28.72	23.53	-2.39	320.71	1,043.00	1,084.64	1,037.86	46.78	23.188			
4,400.00	4,127.03	4,221.49	4,027.65	29.59	24.21	-2.41	329.96	1,074.61	1,117.34	1,069.18	48.15	23.204			
4,500.00	4,218.37	4,315.99	4,116.23	30.46	24.90	-2.43	339.21	1,106.21	1,150.03	1,100.50	49.53	23.218			
4,553.81	4,267.52	4,366.84	4,163.89	30.93	25.26	-2.44	344.18	1,123.21	1,167.62	1,117.35	50.27	23.226			
4,600.00	4,309.94	4,410.59	4,204.90	31.28	25.58	-2.43	348.47	1,137.84	1,182.44	1,131.52	50.92	23.222			
4,700.00	4,403.20	4,505.88	4,294.22	31.89	26.27	-2.26	357.79	1,169.71	1,212.50	1,160.28	52.22	23.219			
4,800.00	4,498.22	4,616.37	4,398.56	32.41	26.94	-1.78	368.00	1,204.57	1,239.26	1,185.81	53.45	23.185			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Archer

Anticollision Report

Archer

Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Reference Site: Sec.7-T6S-R4W
Site Error: 0.00 usft
Reference Well: Federal 9-7D-64
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Output errors are at
Database:
Offset TVD Reference:

Well Federal 9-7D-64
WELL @ 7428.00usft (Original Well Elev)
WELL @ 7428.00usft (Original Well Elev)
True
Minimum Curvature
2.00 sigma
EDM 5000.1 Single User Db
Reference Datum

Offset Design Sec.7-T6S-R4W - Federal 8-7D-64 - Wellbore #1 - Design #3													Offset Site Error:	0.00 usft
Survey Program: 0-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,594.74	4,730.03	4,507.58	32.86	27.48	-1.32	377.01	1,235.37	1,261.95	1,207.48	54.47	23.168		
5,000.00	4,692.49	4,845.39	4,619.72	33.22	27.94	-0.91	384.59	1,261.28	1,280.44	1,225.11	55.33	23.141		
5,100.00	4,791.21	4,962.17	4,734.48	33.50	28.32	-0.56	390.65	1,281.97	1,294.65	1,238.62	56.03	23.106		
5,200.00	4,890.63	5,080.06	4,851.30	33.70	28.62	-0.27	395.09	1,297.13	1,304.50	1,247.94	56.56	23.063		
5,300.00	4,990.47	5,198.75	4,969.57	33.83	28.84	-0.06	397.85	1,306.56	1,309.95	1,253.02	56.93	23.009		
5,354.54	5,045.00	5,263.68	5,034.44	33.87	28.92	0.03	398.63	1,309.22	1,311.05	1,253.99	57.06	22.978		
5,400.00	5,090.46	5,317.87	5,088.62	33.90	28.97	0.07	398.88	1,310.10	1,311.27	1,254.11	57.15	22.943		
5,500.00	5,190.46	5,419.71	5,190.46	33.97	29.05	0.07	398.89	1,310.12	1,311.27	1,253.96	57.31	22.880		
5,600.00	5,290.46	5,519.71	5,290.46	34.03	29.14	0.07	398.89	1,310.12	1,311.27	1,253.80	57.48	22.813		
5,700.00	5,390.46	5,619.71	5,390.46	34.10	29.22	0.07	398.89	1,310.12	1,311.27	1,253.63	57.65	22.746		
5,800.00	5,490.46	5,719.71	5,490.46	34.17	29.31	0.07	398.89	1,310.12	1,311.27	1,253.45	57.82	22.679		
5,900.00	5,590.46	5,819.71	5,590.46	34.24	29.40	0.07	398.89	1,310.12	1,311.27	1,253.28	58.00	22.610		
6,000.00	5,690.46	5,919.71	5,690.46	34.31	29.49	0.07	398.89	1,310.12	1,311.27	1,253.10	58.17	22.541		
6,100.00	5,790.46	6,019.71	5,790.46	34.39	29.59	0.07	398.89	1,310.12	1,311.27	1,252.92	58.35	22.471		
6,200.00	5,890.46	6,119.71	5,890.46	34.46	29.68	0.07	398.89	1,310.12	1,311.27	1,252.73	58.54	22.400		
6,300.00	5,990.46	6,219.71	5,990.46	34.54	29.77	0.07	398.89	1,310.12	1,311.27	1,252.55	58.73	22.329		
6,400.00	6,090.46	6,319.71	6,090.46	34.62	29.87	0.07	398.89	1,310.12	1,311.27	1,252.36	58.92	22.257		
6,500.00	6,190.46	6,419.71	6,190.46	34.70	29.97	0.07	398.89	1,310.12	1,311.27	1,252.16	59.11	22.184		
6,600.00	6,290.46	6,519.71	6,290.46	34.78	30.07	0.07	398.89	1,310.12	1,311.27	1,251.97	59.30	22.111		
6,700.00	6,390.46	6,619.71	6,390.46	34.86	30.17	0.07	398.89	1,310.12	1,311.27	1,251.77	59.50	22.037		
6,800.00	6,490.46	6,719.71	6,490.46	34.94	30.27	0.07	398.89	1,310.12	1,311.27	1,251.57	59.70	21.963		
6,821.54	6,512.00	6,741.25	6,512.00	34.96	30.29	0.07	398.89	1,310.12	1,311.27	1,251.53	59.75	21.947		



Archer

Anticollision Report

Archer

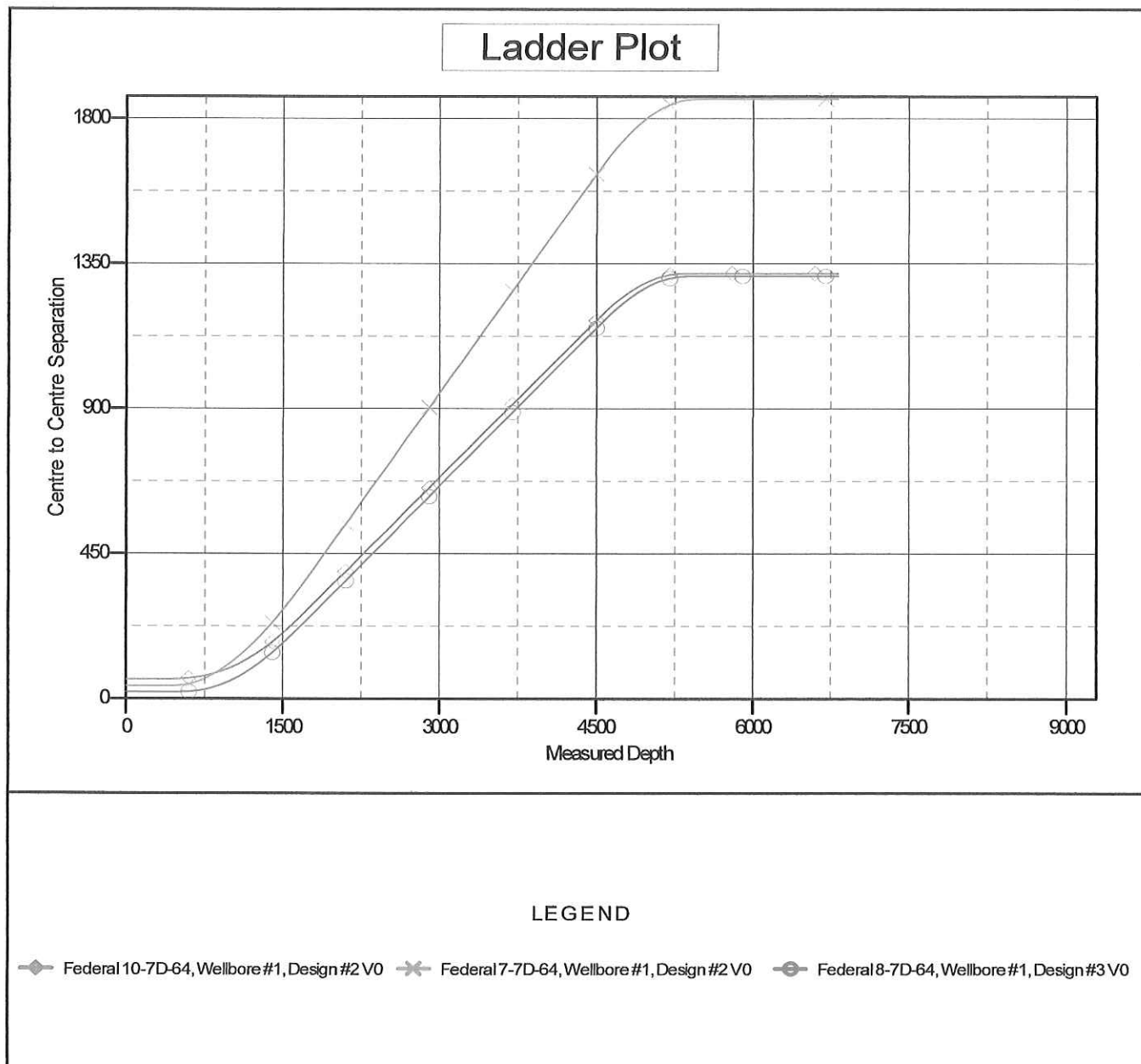
Company: Berry Petroleum Company
Project: Duchesne Co., UT (UT27C)
Reference Site: Sec.7-T6S-R4W
Site Error: 0.00 usft
Reference Well: Federal 9-7D-64
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Output errors are at
Database:
Offset TVD Reference:

Well Federal 9-7D-64
 WELL @ 7428.00usft (Original Well Elev)
 WELL @ 7428.00usft (Original Well Elev)
 True
 Minimum Curvature
 2.00 sigma
 EDM 5000.1 Single User Db
 Reference Datum

Reference Depths are relative to WELL @ 7428.00usft (Original Well E
 Offset Depths are relative to Offset Datum
 Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Federal 9-7D-64
 Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
 Grid Convergence at Surface is: 0.72°





Archer

Anticollision Report

Archer

Company: Berry Petroleum Company
 Project: Duchesne Co., UT (UT27C)
 Reference Site: Sec.7-T6S-R4W
 Site Error: 0.00 usft
 Reference Well: Federal 9-7D-64
 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Design #3

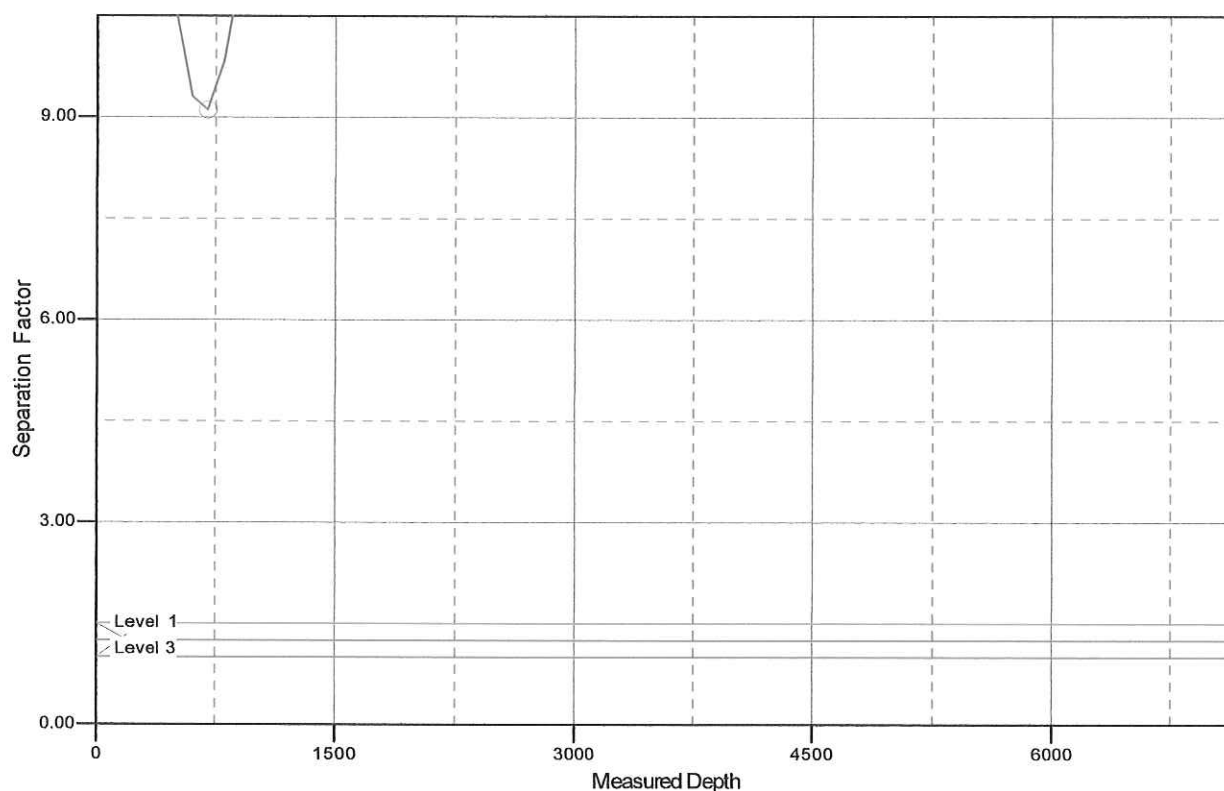
Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Output errors are at
 Database:
 Offset TVD Reference:

Well Federal 9-7D-64
 WELL @ 7428.00usft (Original Well Elev)
 WELL @ 7428.00usft (Original Well Elev)
 True
 Minimum Curvature
 2.00 sigma
 EDM 5000.1 Single User Db
 Reference Datum

Reference Depths are relative to WELL @ 7428.00usft (Original Well E
 Offset Depths are relative to Offset Datum
 Central Meridian is 111° 30' 0.000 W

Coordinates are relative to: Federal 9-7D-64
 Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302
 Grid Convergence at Surface is: 0.72°

Separation Factor Plot



LEGEND

◆ Federal 10-7D-64, Wellbore #1, Design #2 V0 ✕ Federal 7-7D-64, Wellbore #1, Design #2 V0 ⊖ Federal 8-7D-64, Wellbore #1, Design #3 V0

AFFIDAVIT OF NOTICE

I, Krista Mecham, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Krista Mecham is a Sr. Regulatory & Permitting Tech. for **Berry Petroleum Company**, a Delaware Corporation, with headquarters located at 1999 Broadway, Suite 3700, Denver, Colorado 80202, and is duly authorized to make this affidavit on behalf of said corporation.

Berry Petroleum Company has submitted notices to commingle production from the Wasatch and Green River formations in the following wells lying within the boundaries of BLM Oil and Gas Lease USA UTU 008894A:

Federal 1-7D-64	Federal 2-7-64	Federal 3-7D-64	Federal 4-7D-64
Federal 5-7D-64	Federal 6-7-64	Federal 7-7-64	Federal 8-7D-64
Federal 9-7D-64	Federal 10-7D-64	Federal 11-7D-64	Federal 12-7D-64
Federal 13-7D-64	Federal 14-7D-64		

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Berry Petroleum Company has provided notices to the owner(s) of all contiguous oil and gas leases or drilling units overlying the pool for the aforementioned wells to the parties listed below:

XTO Energy Inc
810 Houston Street
Ft. Worth, TX 76102
Attn: Paul Keffer

Burton/Hawks, Inc.
P.O. Box 359
Casper, WY 82602

JMI Energy Inc.
7600 West Tidwell
Suite 102
Houston, TX 77040

HEP Partners LP
c/o Chevron USA
1400 Smith
Houston, TX 77002
Attn: Cody Cole

Burlington Resources Oil & Gas Company LP
c/o ConocoPhillips Company
3300 N. A St. Bldg 5-138
Midland, TX 79705
Attn: Jordan Zongol

Vantage Energy
116 Inverness Drive East
Suite 107
Englewood, Colorado 80112
Attn: Mr. Michael Holland

Estate of Mary Alice Pendleton Poindexter
c/o John M. Shuey Jr.
401 Edwards Street
Suite 1300
Shreveport, LA 71101

Talisman Oil & Gas Co.
4 Waterway Square Place
Suite 600
The Woodlands, TX 77380
Attn: Mr. Matthew Colbert

Fidelity Exploration & Production Company
1700 Lincoln Street, Suite 2800
Denver, CO 80203
Attn: Mr. Ben Woodruff

This instrument is executed this 24th day of June, 2013.

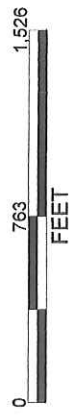
Berry Petroleum Company

By: Krista Mecham

Berry Petroleum Company

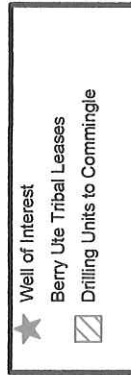
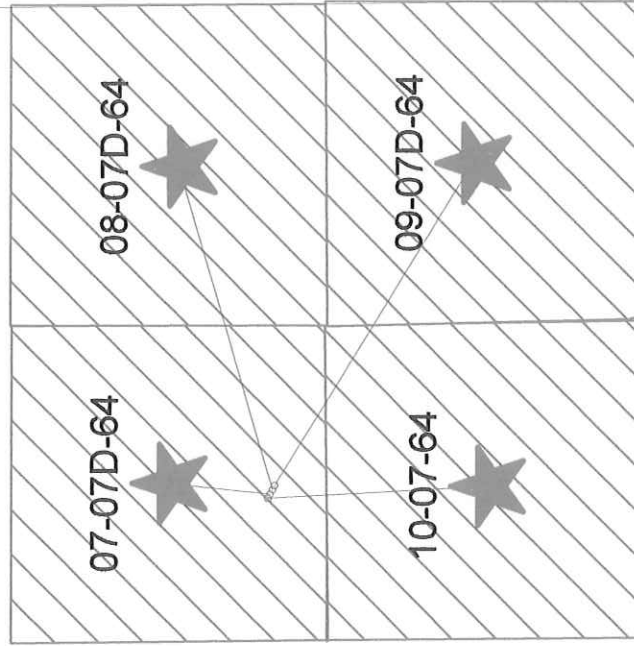
Statewide Utah

Commingle Map



April 2, 2013

7



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FEDERAL 9-7D-64
2. NAME OF OPERATOR: BERRY PETROLEUM COMPANY	9. API NUMBER: 43013519350000
3. ADDRESS OF OPERATOR: 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066	PHONE NUMBER: 303 999-4044 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2380 FNL 1971 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 07 Township: 06.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON COUNTY: DUCHESNE STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/29/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Berry Petroleum hereby requests to change the drilling fluid for the surface hole from a depth of 0' to 1025' from mud to air, and requests a variance from Onshore Order 2, III. E. to apply to the previously mentioned interval for the well listed above.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: August 09, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Krista Mecham	PHONE NUMBER 435 722-1325	TITLE Regulatory Permitting Tech
SIGNATURE N/A	DATE 7/29/2013	

Berry Petroleum requests variances shown below to Onshore Order 2 III . Section E Special Drilling Operations as they apply to our air drilling of surface holes in the Uintah Formation.

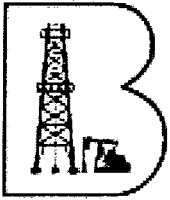
Berry Petroleum requests permission to use a diverter bowl in place of a rotating head. The diverter bowl safely forces the air and cutting returns to the surface blooie line and then diverted away from the rig. Gas is very rarely encountered in small amounts in the Uintah formation. The diverter bowl is sufficient to divert such flows safely away from the rig.

Berry Petroleum requests permission to use a blooie line that discharges less than 100' from the wellbore. The location footprint, size and configuration does not allow for a 100' line to the flare or blooie pit for surface hole drilling. The lengths will be 30-60' depending on the location. Gas is very rarely encountered in small amounts in the Uintah formation, and the shorter blooie line lengths are capable of handling such flows.

Berry Petroleum requests permission to operate without an automatic igniter or continuous pilot light on the blooie line. Gas is very rarely encountered in small amounts in the Uintah Formation. If encountered, the drilling rig will have the ability to safely ignite the flare as needed.

Berry Petroleum requests permission to use a trailer mounted air compressor located less than 100 feet from the well bore. The location footprint, size and/or configuration of the surface hole drilling equipment does not practically allow for a 100' offset . Gas is very rarely encountered in small amounts in the Uintah Formation. If encountered, the following configuration will allow safe operations. The compressor itself it is located a minimum distance of 30' from the wellbore and is in an opposite direction from the blooie line. The compressor has the following safety features; (1) shut off valve on the trailer that is physically located no more than 20' from the air rig. (2) pressure relief valve on the air compressor discharge cylinder/piping. (3) Spark arrestors on the motors.

Berry Petroleum requests permission to not be required for the staging of mud circulating equipment, water and mud materials sufficient to maintain the capacity of the hole and circulating tank or pits on the air drilling location. Gas is very rarely encountered in small amounts in the Uintah Formation. Berry will have a water truck on location available to fill the hole as needed should gas be encountered.



Berry Petroleum Company

CONFIDENTIAL

RT 2 Box 7735
3846 S Hwy 40
Roosevelt, Utah
(435) 722-1325

September 26, 2013

State of Utah OG&M
Carol Daniels
Salt Lake City, Utah

Federal 9-7D-64
Section 7, T6S, R4W
Lease # UTU-8894A
API# 43-013-51935

Re: Rig move scheduled to begin on Friday, September 27, 2013 at 4:00 PM.
BOP test scheduled to begin at approx. 1:00 AM on Saturday, September 28, 2013.

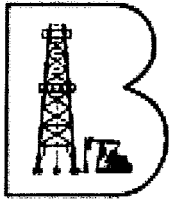
If you have any questions or need more information.
Please call me at 970-812-0068

Sincerely
Mike Hancock
Thank You

RECEIVED

SEP 26 2013

DIV. OF OIL, GAS & MINING



Berry Petroleum Company

RT 2 Box 7735
3846 S Hwy 40
Roosevelt, Utah
(435) 722-1325

CONFIDENTIAL

September 30, 2013

State of Utah OG&M
Carol Daniels
Salt Lake City, Utah

Re: Run 5 ½" Production Casing- Tuesday, October 1, 2013 at 5:00 PM

Well: Federal 9-7D-64
Section 7, T6S, R4W
Lease # UTU-8894A
API# 43-013-51935

If you have any questions or need more information.
Please call me at 970-812-0068

Sincerely
Mike Hancock
Thank You

RECEIVED

SEP 30 2013

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: FEDERAL 9-7D-64
2. NAME OF OPERATOR: BERRY PETROLEUM COMPANY		9. API NUMBER: 43013519350000
3. ADDRESS OF OPERATOR: 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2380 FNL 1971 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 07 Township: 06.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2013			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Federal 9-7D-64 went to first sales on October 27, 2013.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 05, 2013

NAME (PLEASE PRINT) Krista Mecham	PHONE NUMBER 435 722-1325	TITLE Regulatory Permitting Tech
SIGNATURE N/A		DATE 11/5/2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: FEDERAL 9-7D-64
2. NAME OF OPERATOR: BERRY PETROLEUM COMPANY		9. API NUMBER: 43013519350000
3. ADDRESS OF OPERATOR: 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066		9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2380 FNL 1971 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 07 Township: 06.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached drilling history for the Federal 9-7D-64.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 05, 2013

NAME (PLEASE PRINT) Krista Mecham	PHONE NUMBER 435 722-1325	TITLE Regulatory Permitting Tech
SIGNATURE N/A		DATE 11/5/2013

Well Name: **FEDERAL 9-7D-64****OPERATIONS SUMMARY**

API 43013519350000	State Utah	Surface Legal Location SWNE Sec. 7 T6S-R4W		
Field Code	Spud Date 9/28/2013	Rig Release Date 10/2/2013	KB-Ground Distance (ft) 19.00	Ground Elevation (ftKB) 7,408.00

Daily Operations**9/27/2013 18:00 - 9/28/2013 06:00**Operations at Report Time
Pressure testing BOPE.

Operations Next 24 Hours

Pressurte test BOP's, Pick up BHA #1, tag cement, Slip & Cut 120' of drilling line, drill out shoe track, drill 7 7/8" production section.

Operations Summary

Rig down, skid rig 20' to the Federal 9-7D-64, rig up. Nipple up BOP's, flow line. Function test BOP's. Held PJSM with A-1 Testing. Pressure Test kelly, floor valves, blind rams, pipe rams, choke manifold and valves to 3000 psi. High & 250 Low.

Time Log

Com

Disconnect power cords to VFD. Hook up hydraulic lines to skid rams. Skid rig 20' to the FEDERAL 9-7D-64. Rig up stairs, VFD house, move cat walk, lower V-door into position, reposition choke house, suitcase. Remove skid rails, matts, and braces in front yard. Change IBOP valve on top drive.

Set spacer spool, lower stack, nipple up BOP's, install choke lines, flow line, function test BOP's.

Held PJSM with A-1 Testing. Pressure Test kelly, floor valves, blind rams, pipe rams. Choke Manifold and Valves to 3000 psi. High & 250 Low.

9/28/2013 06:00 - 9/29/2013 06:00

Operations at Report Time

Drilling 7 7/8" production hole

Operations Next 24 Hours

Drill 7 7/8" production hole

Operations Summary

Finish testting BOPE. Install wear ring bushing, make up bit, pick up directional tools scribe & orient. TIH F/95'-214', change rotating head element. TIH F/214'-294, tag cement. Slip & cut 120' drilling line. Tighten up flow line from rotating head to shakers. Drill out shoe track F/294'-398'. Drill formation F/398'-717'. Rig service. Drill W/rotary & slides F/717'-843'. POOH 10 stands DP, TIH W/10 stands HWDP. Drill F/843'-1640', rig service. drill F/1640'-1958'. Lost total 300 bbls, seeping 5 bbls hr.

Time Log

Com

Tested Annular to 2500 psi. High & 250 Low. Casing 1500 psi 30/min. Rig down.

Install wear bushing

Make up bit, pick up directional tools orient & scribe MWD tool.

TIH F/95'-214'

Remove old and replace with new rotating head rubber

TIH F/214'-294', tag cement @294'

Slip and cut 120' of drilling line. Reset C.O.M.

Tighten flow line at grant head and shakers.

Drill out shoe track F/294'-398'.

Drill formation W/rotary & slides F/398'-717'

Rig service- check all fluids, grease all fittings

Drill W/rotary & slides F/717'-843'

POOH 10 stands Dp, TIH 10 stands HWDP.

Drill W/ rotary & slides F/843'-1640'.

Rig service

Drill W/rotary & slides F/1640'-1958', Avg f/hr- 110, Wob 20, Rpm-65, Gpm- 400, lost total 300 bbls, seeping 5 bbls hr.

9/29/2013 06:00 - 9/30/2013 06:00

Operations at Report Time

Drill Production section

Operations Next 24 Hours

Drill 7 7/8" hole to TD @6808'

Operations Summary

Drill F/1958'-2527', Rig service, Drill W/rotary & slides F/2527'-4989', Rig service.

Time Log

Com

Drill W/rotary & slides F/1958'-2527'

Rig Service- Found broken filter housing in top drive, replace 7 change oil

Drill W/rotary & slides F/2527'-4989'. Lossing Avg. 20 bbls hr.

Rig Service

9/30/2013 06:00 - 10/1/2013 06:00

Operations at Report Time

Circulating sweeps to shakers, rig up Lay down machine when they arrive.

Operations Next 24 Hours

Lay down drill string, run Triple combo logs W/Halliburton . Run 162 jts. 5 1/2" 15.5# J-55 casing to 6788', cement W/Propetro.

Operations Summary

Drill F 4989'-6505', Rig Service, Drill F/6505'-6808'. Circulate High-Vis sweep to shakers, POOH, Laydown directional tools. Make up Tri-cone bit, bit sub/float, TIH to 6728', break circulation, ream 80' to TD @6808', pump 2-30 bbl Hi-Vis sweeps to shakers until clean.

Time Log

Com

Drill F/4989'-6505', lossing@20 bbls hr.

Rig Service

Drill F/6505'-6808'.(TD)Using LCM to control losses, lossing @10 bbls hr.

Pump 30 bbl High-Vis sweep to shakers.

POOH- wiper trip

Lay down directional tools

Well Name: **FEDERAL 9-7D-64****OPERATIONS SUMMARY****Time Log**

Com

Rig service

Make up tri-cone bit, bit sub/float, TIH to 6728'

Break circulation, ream 80' to TD-6808'

Pump 2- 30 bbl Hi-Vis sweeps to shakers until clean. Seeping 5 bbls hr.

10/1/2013 06:00 - 10/2/2013 06:00

Operations at Report Time

Nipple down BOP

Operations Next 24 Hours

Clean pits, release rig

Operations Summary

Pump 2 high vis LCM sweeps, lay down drill string, pull wear bushing, logg well, rig service, run production casing, cement production casing, set slips, nipple down BOP

Time Log

Com

Pump 2 high vis LCM sweeps, circulate shakers clean

HPJSM with Weatherford lay down crew, lay down drill string, rig down lay down equipment

Pull wear bushing

HPJSM with Halliburton loggers, logg well, loggers depth 6798', rig down logging equipment

Rig service

Change bales and elevators, install flow nipple, HPJSM with Weatherford casers, rig up casing equipment, run 162 joints of 15.5 J55 casing

Make up mandral and circulating swedge, Try to wash down mandral and landing joint, pipe would not wash down, break out mandral and landing joint

HPJSM with ProPetro cementers, rig up cement equipment, cement well, LEAD: 210 sks 16% gel, 10# sk gilsonite, 3# sk GR-3, 3% salt, 1/4# sk flocele, TAIL: 440 sks 65% cement, 35% poz, 6% gel, 10# sk gilsonite, .2% CDI-33, .2% CFL-175, 10% salt, 1/4# sk flocele, FCP 1600 psi, bumped plug @ 2000 psi, floats held, 1 bbl cement to surface

Set slips with Cameron, nipple down BOP

10/2/2013 06:00 - 10/3/2013 06:00

Operations at Report Time

Cleaning pits

Operations Next 24 Hours

rig down to move rig

Operations Summary

Clean pits

Time Log

Com

Clean pits

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU8894A
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: Berry Petroleum		7. UNIT or CA AGREEMENT NAME
3. ADDRESS OF OPERATOR: Rt 2 Box 7735 CITY Roosevelt STATE Ut ZIP 84066		8. WELL NAME and NUMBER: Federal 9-7D-64
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2380' FNL & 1971' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 2043' FSL & 766' FEL (NESE) AT TOTAL DEPTH: 1978' FSL & 663' FEL (NESE)		9. API NUMBER: 4301351935
10. FIELD AND POOL, OR WILDCAT Brundage		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 7 6S 4W U
12. COUNTY Duchesne		13. STATE UTAH

14. DATE SPUNDED: 8/6/2013	15. DATE T.D. REACHED: 10/3/2013	16. DATE COMPLETED: 10/24/2013	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 7408, GL
18. TOTAL DEPTH: MD 6,808 TVD 6,504	19. PLUG BACK T.D.: MD 6,737 TVD 6,433	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Electronic			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	8.625 J-55	24		398		G 225		226	
7.875	5.5 J-55	15.5		6,781		PL 650			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6.356							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) U Butte/Wasatch	6,037	6,281			6,037 6,281	.42	42	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Uteland Butte	5,856	6,012			5,856 6,012	.39	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Castle Peak	5,412	5,833			5,412 5,833	.39	74	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D) Douglas Creek	4,536	4,774			4,536 4,774	.39	32	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
Uteland Butte/Wasatch	Frac w/ 125,100 LBS Sand & 1733 BBL Fluid
Uteland Butte	Frac w/ 74,858 LBS Sand & 1530 BBL Fluid
Castle Peak	Frac w/ 101,480 LBS Sand & 1758 BBL Fluid

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

Pumping

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/5/2013	TEST DATE: 11/6/2013	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 84	GAS – MCF: 17	WATER – BBL: 48	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS. 350	CSG. PRESS. 50	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GR	1,884
				Mahogany	2,658
				TGR3	3,685
				Douglas Creek	4,485
				3 Point	4,809
				Black Shale	5,089
				Castle Peak	5,539
				Uteland Butte	5,853
				Wasatch	6,043

35. ADDITIONAL REMARKS (Include plugging procedure)

#28. Douglas Creek: Frac w/ 29,634 LBS Sand & 1474 BBL Fluid

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Krista WilsonTITLE Sr. Reg. & Permitting

SIGNATURE

Krista WilsonDATE 12/27/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Archer

PVA & Survey Report



Project: Duchesne Co., UT (UT27C)
 Site: Sec.7-T6S-R4W
 Well: Federal 9-7D-64
 Wellbore: Wellbore #1
 Design: Design #3
 Latitude: 39° 58' 30.209 N
 Longitude: 110° 22' 29.179 W
 Ground Level: 7408.00
 WELL @ 7428.00usft (Original Well Elev)

Archer

PROJECT DETAILS: Duchesne Co., UT (UT27C)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302

System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Federal 9-7D-64, True North
 Vertical (TVD) Reference: WELL @ 7428.00usft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 7428.00usft (Original Well Elev)
 Calculation Method: Minimum Curvature

WELL DETAILS: Federal 9-7D-64

+N/-S	+E/-W	Northings	Ground Level:	7408.00	Latitude	Longitude	Slot
0.00	0.00	599943.796	Easting	2315330.928	39° 58' 30.209 N	110° 22' 29.179 W	

DESIGN TARGET DETAILS

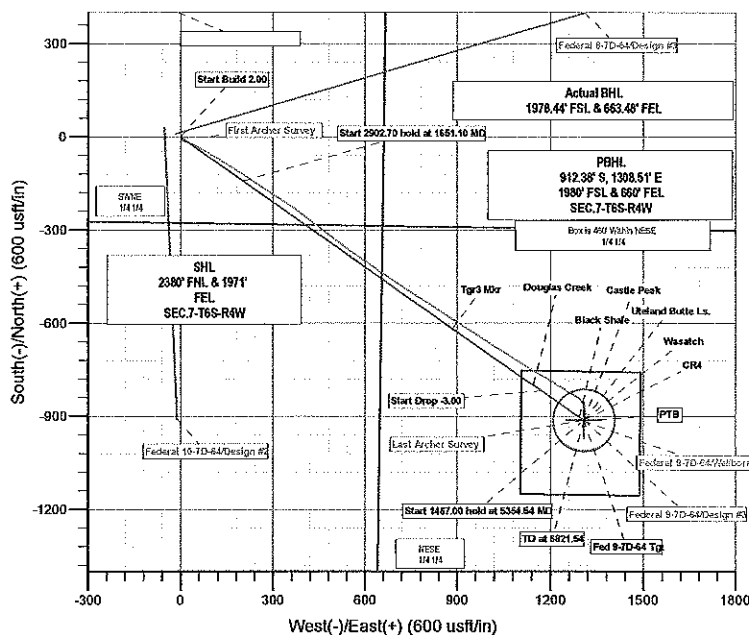
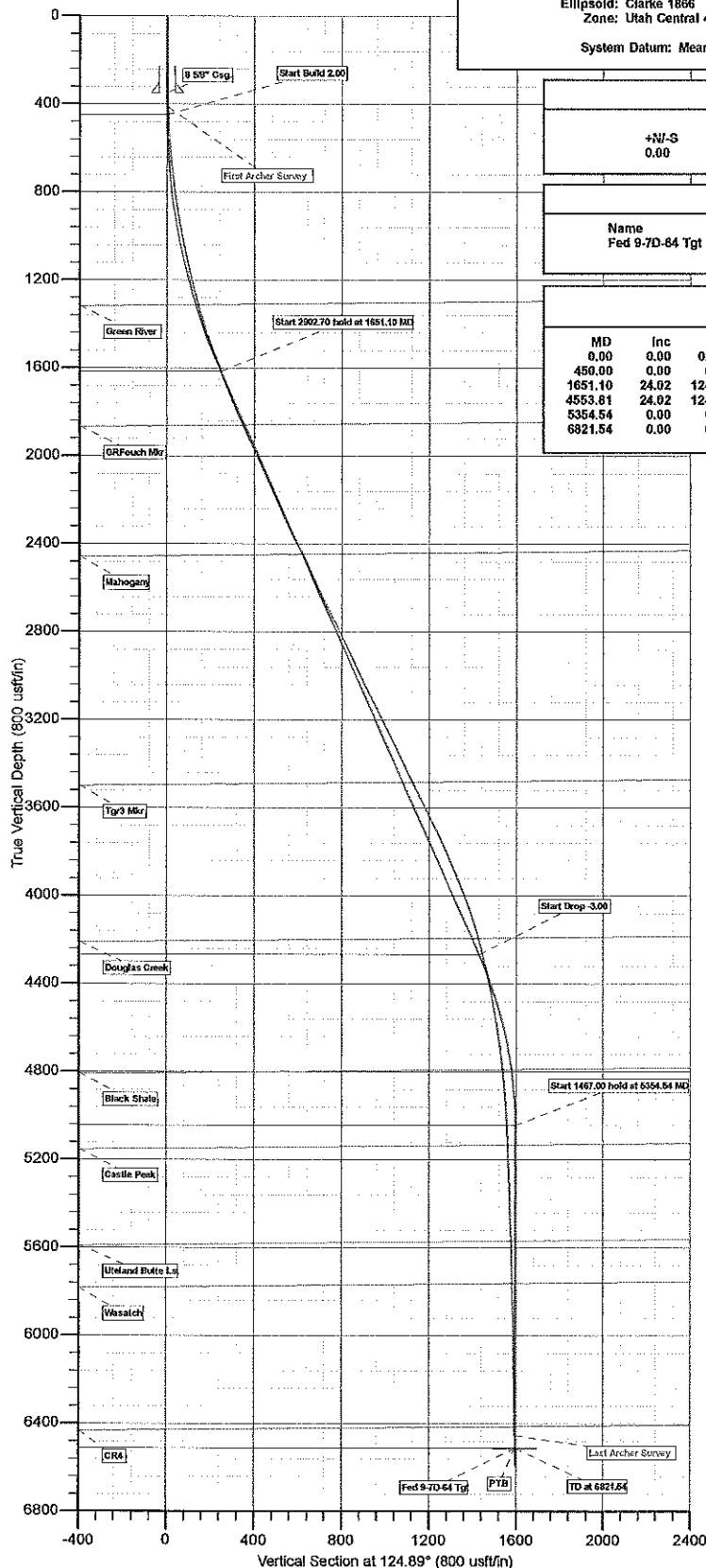
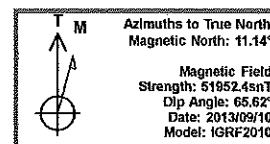
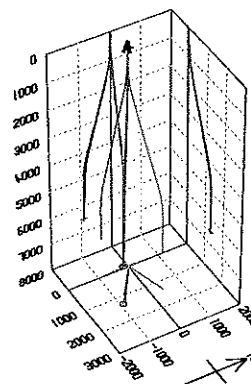
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Fed 9-7D-64 Tgt	6512.00	-912.38	1308.51	39° 58' 21.191 N	110° 22' 12.371 W	Circle (Radius: 100.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1651.10	24.02	124.89	1616.22	-141.92	203.53	2.00	124.89	248.12	Start 2902.70 hold at 1651.10 MD
4553.81	24.02	124.89	4287.52	-817.77	1172.82	0.00	0.00	1429.78	Start Drop -3.00
5354.54	0.00	0.00	5045.00	-912.38	1308.51	3.00	180.00	1595.19	Start 1467.00 hold at 5354.54 MD
6821.54	0.00	0.00	6512.00	-912.38	1308.51	0.00	0.00	1595.19	TD at 6821.54

FORMATION TOP DETAILS

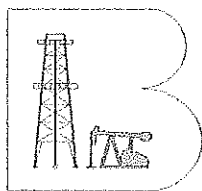
TVDPath	MDPath	Formation
1311.68	1325.23	Green River
1859.45	1917.40	GRFouch Mkr
2446.85	2580.49	Mahogany
3484.25	3696.26	Tgr3 Mkr
4193.11	4472.34	Douglas Creek
4788.30	5097.06	Black Shale
5132.13	5441.67	Castle Peak
5569.13	5878.67	Uteland Butte Ls.
5762.13	6071.67	Wasatch
6412.13	6721.67	CR4



Plan: Design #3 (Federal 9-7D-64/Wellbore #1)

Created By: Bret Wolford Date: 9:42, December 26 2013

RECEIVED: Dec. 30, 2013



Berry Petroleum Company

Duchesne Co., UT (UT27C)

Sec.7-T6S-R4W

Federal 9-7D-64

Wellbore #1

Survey: Survey #1

Standard Survey Report

01 October, 2013

Archer



Archer

Survey Report



Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Well:	Federal 9-7D-64	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Project	Duchesne Co., UT (UT27C)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Sec.7-T6S-R4W			
Site Position:		Northing:	601,943.869 usft	Latitude: 39° 58' 49.980 N
From:	Lat/Long	Easting:	2,315,290.072 usft	Longitude: 110° 22' 29.381 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.72 °

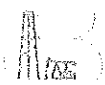
Well	Federal 9-7D-64			
Well Position	+N/-S	0.00 usft	Northing: 599,943.796 usft	Latitude: 39° 58' 30.209 N
	+E/-W	0.00 usft	Easting: 2,315,330.928 usft	Longitude: 110° 22' 29.179 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 7,408.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/09/10	11.14	65.62	51,952

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	124.89

Survey Program	Date 2013/10/01			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
416.00	6,808.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First Archer Survey										
416.00	2.00	164.96	415.92	-7.01	1.88	5.56	0.48	0.48	0.00	
543.00	3.08	110.37	542.81	-10.34	5.66	10.55	1.98	0.85	-42.98	
669.00	5.90	109.95	668.41	-13.73	14.92	20.09	2.24	2.24	-0.33	
789.00	7.93	111.57	787.53	-18.88	28.42	34.11	1.70	1.69	1.35	
896.00	9.54	115.71	893.28	-25.44	43.27	50.04	1.61	1.50	3.87	
1,023.00	11.64	117.50	1,018.11	-35.92	64.12	73.14	1.67	1.65	1.41	
1,149.00	12.92	121.51	1,141.23	-49.15	87.41	99.81	1.22	1.02	3.18	
1,276.00	15.20	121.11	1,264.42	-65.18	113.77	130.60	1.80	1.80	-0.31	
1,402.00	17.80	121.27	1,385.22	-83.71	144.38	166.31	2.08	2.06	0.13	
1,527.00	19.49	122.37	1,503.65	-104.79	178.32	206.21	1.38	1.35	0.88	
1,655.00	21.22	122.97	1,623.66	-128.83	215.79	250.70	1.36	1.35	0.47	



Archer

Survey Report

Archer

Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-84
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Well:	Federal 9-7D-84	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,781.00	22.30	123.92	1,740.68	-154.58	254.76	297.39	0.90	0.86	0.75
1,908.00	24.30	122.52	1,857.32	-182.08	296.80	347.60	1.63	1.57	-1.10
2,034.00	24.46	122.36	1,972.08	-209.98	340.69	399.56	0.14	0.13	-0.13
2,161.00	25.34	127.54	2,087.29	-240.62	384.46	452.99	1.85	0.69	4.08
2,288.00	24.19	126.85	2,202.61	-272.78	426.83	506.14	0.93	-0.91	-0.54
2,414.00	24.50	128.45	2,317.40	-304.51	467.95	558.02	0.58	0.25	1.27
2,540.00	26.27	125.92	2,431.24	-337.12	511.00	611.98	1.65	1.40	-2.01
2,667.00	25.50	125.44	2,545.49	-369.46	556.03	667.42	0.63	-0.61	-0.38
2,791.00	25.54	122.99	2,657.40	-399.49	600.20	720.82	0.85	0.03	-1.98
2,917.00	26.21	125.45	2,770.77	-430.42	645.65	775.80	1.00	0.53	1.95
3,042.00	26.07	123.37	2,882.99	-461.54	691.07	830.86	0.74	-0.11	-1.66
3,169.00	25.17	122.74	2,997.50	-491.50	737.10	885.74	0.74	-0.71	-0.50
3,294.00	27.00	122.72	3,109.76	-521.21	783.33	940.67	1.46	1.46	-0.02
3,421.00	26.17	122.50	3,223.33	-551.84	831.21	997.46	0.66	-0.65	-0.17
3,547.00	26.77	122.65	3,336.13	-582.08	878.53	1,053.57	0.48	0.48	0.12
3,673.00	25.33	122.37	3,449.32	-611.82	925.19	1,108.86	1.15	-1.14	-0.22
3,801.00	26.10	122.07	3,564.64	-641.43	972.18	1,164.33	0.61	0.60	-0.23
3,927.00	26.40	123.28	3,677.65	-671.52	1,019.08	1,220.02	0.49	0.24	0.96
4,054.00	24.75	122.77	3,792.20	-701.40	1,065.05	1,274.81	1.31	-1.30	-0.40
4,180.00	22.37	121.57	3,907.69	-728.24	1,107.66	1,325.11	1.93	-1.89	-0.95
4,307.00	19.90	121.59	4,026.14	-752.21	1,146.67	1,370.83	1.94	-1.94	0.02
4,433.00	17.22	121.73	4,145.58	-773.26	1,180.80	1,410.86	2.13	-2.13	0.11
4,560.00	14.59	120.62	4,267.70	-791.30	1,210.56	1,445.59	2.08	-2.07	-0.87
4,685.00	12.29	120.53	4,389.27	-806.08	1,235.57	1,474.56	1.84	-1.84	-0.07
4,812.00	9.98	120.58	4,513.87	-818.54	1,256.69	1,499.02	1.82	-1.82	0.04
4,939.00	8.19	122.96	4,639.28	-829.06	1,273.76	1,519.03	1.44	-1.41	1.87
5,066.00	6.37	126.12	4,765.25	-838.14	1,287.04	1,535.12	1.47	-1.43	2.49
5,192.00	4.40	133.04	4,890.69	-845.56	1,296.22	1,546.89	1.64	-1.56	5.49
5,319.00	3.18	143.17	5,017.41	-851.70	1,301.89	1,555.06	1.09	-0.96	7.98
5,445.00	2.28	154.72	5,143.26	-856.77	1,305.06	1,560.55	0.83	-0.71	9.17
5,571.00	2.60	166.78	5,269.15	-861.82	1,306.78	1,564.85	0.48	0.25	9.57
5,697.00	2.78	161.81	5,395.01	-867.50	1,308.39	1,569.42	0.23	0.14	-3.94
5,824.00	2.54	166.80	5,521.88	-873.17	1,309.99	1,573.98	0.26	-0.19	3.93
5,950.00	2.37	174.96	5,647.76	-878.48	1,310.86	1,577.73	0.31	-0.13	6.48
6,076.00	2.42	178.35	5,773.65	-883.73	1,311.16	1,580.99	0.12	0.04	2.69
6,203.00	2.44	183.12	5,900.54	-889.11	1,311.09	1,584.00	0.16	0.02	3.76
6,329.00	2.58	191.97	6,026.42	-894.57	1,310.36	1,586.52	0.33	0.11	7.02
6,455.00	2.53	196.94	6,152.29	-900.00	1,308.96	1,588.48	0.18	-0.04	3.94
6,582.00	2.57	189.11	6,279.17	-905.49	1,307.69	1,590.58	0.28	0.03	-6.17
6,707.00	2.68	191.57	6,404.03	-911.12	1,306.66	1,592.96	0.13	0.09	1.97
Last Archer Survey									
6,758.00	2.52	190.58	6,454.98	-913.39	1,306.22	1,593.89	0.33	-0.31	-1.94
PTB									
6,808.00	2.52	190.58	6,504.93	-915.56	1,305.82	1,594.80	0.00	0.00	0.00

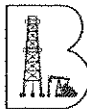
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
416.00	415.92	-7.01	1.88	First Archer Survey
6,758.00	6,454.98	-913.39	1,306.22	Last Archer Survey
6,808.00	6,504.93	-915.56	1,305.82	PTB

**Archer**
Survey Report**Archer**

Company:	Berry Petroleum Company	Local Co-ordinate Reference:	Well Federal 9-7D-64
Project:	Duchesne Co., UT (UT27C)	TVD Reference:	WELL @ 7428.00usft (Original Well Elev)
Site:	Sec.7-T6S-R4W	MD Reference:	WELL @ 7428.00usft (Original Well Elev)
Well:	Federal 9-7D-64	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDMDBBW

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Well Name: FEDERAL 9-7D-64

OPERATIONS SUMMARY

API 43013519350000	State Utah	Surface Legal Location SWNE Sec. 7 T6S-R4W		
Field Code	Spud Date 9/28/2013	Rig Release Date 10/2/2013	KB-Ground Distance (ft) 19.00	Ground Elevation (ftKB) 7,408.00

Daily Operations

10/15/2013 07:42 - 10/15/2013 07:42

Operations at Report Time

Operations Next 24 Hours

FINISH PREP PAD, BAKER & CUTTERS R/U AND PERF/FAC WELL

Operations Summary

RUSTIN TEST TREE AND CASING, CUTTERS PERF STG #1, FINISH PREP PAD

Time Log

Com

CUTTERS R/U. JSA MEETING. PREP TO PERF STG #1

PERFORATE STG #1 IN THE UTELAND BUTTE/WASATCH, CR2, (10-15-2013) FROM 6,037'-6,281'. @ 2 SPF, 120 DEGREE PHASING, 22.7 GRAM CHARGE, & EHD OF .42". CHARGE P/N IS TITAN EXP-3323-322T WITH PENETRATION OF 35.1. 42 TOTAL HOLES. PERFS: 6,037'-38', 6,045'-47', 6,049'-51', 6,082'-84', 6,143'-44', 6,155'-57', 6,163'-65', 6,167'-69', 6,194'-95', 6,250'-52', 6,254'-56', AND 6,279'-81'. PULL OUT OF THE HOLE & SHUT IN & SECURE WELL.

PREP PAD, FILL & HEAT 21 TANKS (+4 MORE TANKS W/ 18% KCL). TOTAL TANKS OF 25 ON FRAC PAD. NOTE: 5 1/2" 15.5# J-55. FLOAT COLLAR @ 6,737'. THERE ARE 6 MORE TANKS ON THE 9-21 AND 25 ON THE 1-32R. STG #1 WAS PERFORATED ON 10/15/2013. TARGET TRUCKING FILLED TANKS.

10/20/2013 07:42 - 10/20/2013 07:42

Operations at Report Time

Operations Next 24 Hours

WELL S.I. PREP PAD FOR COMPLETION RIG

Operations Summary

MIRU CUTTERS & BAKER. TEST EQUIP. BAKER FRAC STGS #1 - #5. CUTTERS PERFORATE STGS #2 - #5. SET KILL PLUG. R/D BAKER AND CUTTERS. LEAVE WELL S.I.

Time Log

Com

CONDUCT JSA AND SAFETY MEETING WITH CUTTERS WIRELINE AND BAKER FRAC CREW.

BAKER TEST LINES AND FRAC STG #1 (UTELAND BUTTE/WASATCH, CR2)

WELL OPEN @ 0 PSI

BROKE DOWN 4.0 BPM @ 2,392

MAX RATE @ 70.8 BPM

MAX PSI @ 3,136

AVG RATE @ 70.4 BPM

AVG PSI @ 2,597

TOTAL FLUID OF 1,733 BBL

ISDP 1,179

FINAL FRAC GRADIENT .63

125,100 LBS OF 20/40 WHITE SAND

42 HOLES AND DROPPED 53 BIO SEALER BALLS, GOOD BALL ACTION.

SET CBP @ 6,025'. PERFORATE STG #2 IN THE UTELAND BUTTE, FROM 5,856' - 6,012'. @ 2 SPF, 120 DEGREE PHASING, 19.0 GRAM CHARGE, & EHD OF .39". CHARGE P/N IS TITAN EXP-3319-32P WITH PENETRATION OF 40.5. 40 TOTAL HOLES. PERFS: 5,856'-57', 5,867'-68', 5,879'-80', 5,894'-96', 5,907'-08', 5,913'-14', 5,919'-20', 5,925'-26', 5,936'-37', 5,946'-47', 5,958'-59', 5,966'-68', 5,973'-74', 5,981'-82', 5,988'-89', 6,000'-01', AND 6,010'-12'.

BAKER TEST LINES AND FRAC STG #2 (UTELAND BUTTE)

WELL OPEN @ 140 PSI

BROKE DOWN 4.0 BPM @ 2,392

MAX RATE @ 69.3 BPM

MAX PSI @ 3,347

AVG RATE @ 68.8 BPM

AVG PSI @ 3,207

TOTAL FLUID OF 1,530 BBL

ISDP 2,145

FINAL FRAC GRADIENT .80

74,858 LBS OF 16/30 WHITE SAND

40 HOLES AND DROPPED 50 BIO SEALER BALLS, GOOD BALL ACTION.

SET CBP @ 5,845'. PERFORATE STG #3 IN THE CASTLE PEAK, FROM 5,613' - 5,833'. @ 2 SPF, 120 DEGREE PHASING, 19.0 GRAM CHARGE, & EHD OF .39". CHARGE P/N IS TITAN EXP-3319-32P WITH PENETRATION OF 40.5. 34 TOTAL HOLES. PERFS: 5,613'-15', 5,630'-31', 5,635'-36', 5,642'-43', 5,669'-70', 5,675'-76', 5,724'-26', 5,750'-52', 5,755'-57', 5,799'-00', 5,827'-28', AND 5,831'-33'.

BAKER TEST LINES AND FRAC STG #3 (CASTLE PEAK)

WELL OPEN @ 1,775 PSI

BROKE DOWN 3.9 BPM @ 2,158

MAX RATE @ 64.1 BPM

MAX PSI @ 3,426

AVG RATE @ 63.5 BPM

AVG PSI @ 3,237

TOTAL FLUID OF 883 BBL

ISDP 1,705

FINAL FRAC GRADIENT .74

51,211 LBS OF 16/30 WHITE SAND

34 HOLES AND DROPPED NO BIO SEALER BALLS,

Well Name: **FEDERAL 9-7D-64****OPERATIONS SUMMARY****Time Log**

Com

SET CBP @ 5,574'. PERFORATE STG #4 IN THE CASTLE PEAK, FROM 5,412' - 5,568'. @ 2 SPF, 120 DEGREE PHASING, 19.0 GRAM CHARGE, & EHD OF .39". CHARGE P/N IS TITAN EXP-3319-32P WITH PENETRATION OF 40.5. 40 TOTAL HOLES. PERFS: 5,412'-14', 5,425'-27', 5,454'-56', 5,484'-86', 5,494'-96', 5,504'-06', 5,514'-16', 5,540'-42', 5,556'-58', AND 5,566'-68'.

BAKER TEST LINES AND FRAC STG #4 (CASTLE PEAK)

WELL OPEN @ 105 PSI

BROKE DOWN 2.4 BPM @ 3,140

MAX RATE @ 70.6 BPM

MAX PSI @ 3,313

AVG RATE @ 70.1 BPM

AVG PSI @ 3,017

TOTAL FLUID OF 875 BBL

ISDP 1,580

FINAL FRAC GRADIENT .73

50,269 LBS OF 16/30 WHITE SAND

40 HOLES AND DROPPED NO BIO SEALER BALLS,

SET CBP @ 4,780'. PERFORATE STG #5 IN THE DOUGLAS CREEK, FROM 4,536' - 4,774'. @ 2 SPF, 120 DEGREE PHASING, 19.0 GRAM CHARGE, & EHD OF .39". CHARGE P/N IS TITAN EXP-3319-32P WITH PENETRATION OF 40.5. 32 TOTAL HOLES. PERFS: 4,536'-38', 4,544'-46', 4,590'-92', 4,627'-29', 4,672'-74', 4,691'-93', 4,750'-52', AND 4,772'-74'.

BAKER TEST LINES AND FRAC STG #5 (DOUGLAS CREEK)

WELL OPEN @ 1,215 PSI

BROKE DOWN 3.7 BPM @ 3,166

MAX RATE @ 70.8 BPM

MAX PSI @ 2,635

AVG RATE @ 70.5 BPM

AVG PSI @ 2,517

TOTAL FLUID OF 1,474 BBL

ISDP 1,424

FINAL FRAC GRADIENT .74

29,634 LBS OF 16/30 WHITE SAND

32 HOLES AND DROPPED NO BIO SEALER BALLS,

CUTTERS SET KILL PLUG @ 4,464'.

BLOW WELL DOWN. RIG DOWN CUTTERS WIRELINE AND BAKER FRAC EQUIPMENT IN THE MORNING.

TOTAL BBLS PUMPED = 5,657 H2O

TOTAL BBLS PUMPED = 470 KCL

UTE TRUCKING HAULED KCL & WATER

2 WELL PAD

HAD A TOTAL OF 56 TANKS

14 CHARGED TO THIS WELL

10/22/2013 07:42 - 10/22/2013 07:42

Operations at Report Time

Operations Next 24 Hours

Operations Summary

MIRU Royal 1. PU tbg.

Time Log

Com

Hold safety meeting. MIRU Royal 1. NU BOP. RIH w/ 4 3/4" mill, bit sub and new 2 7/8" tbg. from pipe trialer, tallying and drifting, to 4464'. SWIFN.

10/23/2013 07:42 - 10/23/2013 07:42

Operations at Report Time

Operations Next 24 Hours

Operations Summary

DU CBPs.

Time Log

Com

Hold safety meeting. RIH w/ tbg. Tag CBP @ 4464'. RU powerswivel. DU CBP in 8 min. 0 psi change. Cont. RIH w/ tbg. Tag fill @ 4770'. C/O to CBP @ 4780'. DU CBP in 12 min. 0 psi change. Cont. RIH w/ tbg. Tag fill @ 5554'. C/O to CBP @ 5574'. DU CBP in 9 min. 0 psi change. Cont. RIH w/ tbg. Tag fill @ 5825'. C/O to CBP @ 5845'. DU CBP in 14 min. 0 psi change. Cont. RIH w/ tbg. Tag fill @ 5985'. C/O to CBP @ 6025'. DU CBP in 18 min. 0 psi change. Cont. RIH w/ tbg. Tag @ 6506'. Circulate well clean. POOH w/ tbg. to 3000'. SWIFN.

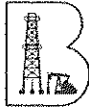
10/24/2013 07:42 - 10/24/2013 07:42

Operations at Report Time

Operations Next 24 Hours

Operations Summary

Round trip tbg. PU rods.

**OPERATIONS SUMMARY**Well Name: **FEDERAL 9-7D-64****Time Log**

Com

Hold safety meeting. POOH w/ tbg. LD BHA. RIH w/ 2 jts 2 7/8" tbg, 4' perfed sub, PSN, burst sub, 1 jt 2 7/8" tbg, Hyd set TA, 193 jts 2 7/8" tbg. ND BOP. NU wellhead. X-over for rods. RIH w/ Central Hyd 2 1/2" x 1 3/4" x 24' RHAC rod pump w/ 20' dip tube, 24- 1" guided rods (4 per), 58- 3/4" guided rods (4 per), 66- 7/8" guided rods (3 per), 102- 7/8" S-88 guided rods (4 per), 1 1/2" x 26' polished rod. Seat pump. Stroke test pump to 800 psi. Good pump action. RU pumping unit. Hang off rods. RD. PWOP. Final report.

5817 BWTR.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/1/2014

FROM: (Old Operator):

Berry Petroelum Company, LLC N4075
 1999 Broadway Street , Suite 3700
 Denver, CO 80202
 Phone: 1 (303) 999-4400

TO: (New Operator):

Linn Operating, Inc. N4115
 1999 Broadway Street, Suite 3700
 Denver, CO 80202
 Phone: 1 (303) 999-4400

CA No.

Unit:

**Berry Pilot EOR 246-02
 Brundage Canyon**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/13/2014
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/13/2014
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/17/2014
- 4a. Is the new operator registered in the State of Utah: _____ Business Number: 9031632-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: N/A
- 5b. Inspections of LA PA state/fee well sites complete on: Yes
- 5c. Reports current for Production/Disposition & Sundries on: 6/17/2014
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA Not Yet
- Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/18/2014
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/18/2014
- Bond information entered in RBDMS on: 6/23/2014
- Fee/State wells attached to bond in RBDMS on: 6/23/2014
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: 6/18/2014
- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: Yes

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: NMB000501
- Indian well(s) covered by Bond Number: NMB000501
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number LPM9149893
- 3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 6/23/2014

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

See attached list

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
Linn Operating, Inc.

3. ADDRESS OF OPERATOR:
1999 Broadway, Ste 3700 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 999-4400

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change of operator</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Notice of Change of Operator from Berry Petroleum Company, LLC to Linn Operating, Inc., effective June 1, 2014. On December 16, 2013, Berry Petroleum Company became an indirect subsidiary of Linn Energy, LLC. As a result, Berry Petroleum Company converted into a limited liability company named, "Berry Petroleum Company, LLC". On March 5, 2014, Berry Petroleum Company, LLC authorized and empowered Linn Operating, Inc. to act as operator on its behalf. I have attached a copy of the original declaration amending the name change along with a copy of the agency agreement and power of attorney for the operator change.

RECEIVED

JUN 10 2014

Div. of Oil, Gas & Mining

NAME (PLEASE PRINT) Beverly Decker

TITLE Sr Engineering Technician

SIGNATURE *Beverly Decker*

DATE 6/1/2014

(This space for State use only)

APPROVED

JUN 18 2014

DIV. OIL GAS & MINING

BY: *Rachel Medina*

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
2. NAME OF OPERATOR: Berry Petroleum Company, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1999 Broadway, Ste 3700 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (303) 999-4400		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
		COUNTY:
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change of operator</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On December 16th, 2013 Berry Petroleum Company and Linn Energy merged. As a result of this merger the companies name has changed to "Berry Petroleum Company, LLC". On March 5th, 2014 Berry Petroleum Company, LLC agreed that Linn Operating, Inc would become the operator of record effective June 1, 2014. I have attached a copy of the original declaration amending the name change along with a copy of the agency agreement and power of attorney for the operator change.

Should you have any questions please don't hesitate to contact me.

RECEIVED
JUN 13 2014
Div. of Oil, Gas & Mining

NAME (PLEASE PRINT) Beverly Decker	TITLE Sr Engineering Technician
SIGNATURE <i>Beverly Decker</i>	DATE 6/1/2014

(This space for State use only)

APPROVED

JUN 18 2014

DIV. OIL GAS & MINING

BY: *Rachel Medina*

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	See Attached
API number:	
Location:	Qtr-Qtr: Section Township Range:
Company that filed original application:	Berry Petroleum Company LLC
Date original permit was issued:	
Company that permit was issued to:	Linn Operating, Inc

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?		<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM9149893</u>	<input checked="" type="checkbox"/>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Beverly Decker Title Sr Engineering Technician
Signature *Beverly Decker* Date _____
Representing (company name) Berry Petroleum Company LLC and Linn Operating, Inc

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	See Attached
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Berry Petroleum Company LLC
Date original permit was issued:	
Company that permit was issued to:	Linn Operating, Inc

Check one	Desired Action:
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.		Yes	No
If located on private land, has the ownership changed?			<input checked="" type="checkbox"/>
<input type="checkbox"/>	If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?			<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?			<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?			<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?			<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?			<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM9149893</u>		<input checked="" type="checkbox"/>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Beverly Decker Title Sr Engineering Technician
Signature  Date _____
Representing (company name) Berry Petroleum Company LLC and Linn Operating, Inc

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

Berry Petroleum Company, LLC (N4075) to Linn Operating, Inc. (N4115)
Effective June 1, 2014

Well Name	Section	TWN	RNG	API Number	Entity	Mineral Lease	Well Type	Well Status	Unit
Z and T UTE TRIBAL 2-21	21	050S	040W	4301331280	11130	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 12-30-54	30	050S	040W	4301332747	14747	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 14-30-54	30	050S	040W	4301332748	14778	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 10-30D-54	30	050S	040W	4301332893	15246	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 6-30-54	30	050S	040W	4301332975	15300	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 1-21-54	21	050S	040W	4301333388	15937	Indian	WI	A	BRUNDAGE CANYON
UTE TRIBAL 13-17D-55	17	050S	050W	4301333550		Indian	OW	APD	
UTE TRIBAL 11-14D-54	14	050S	040W	4301333596		Indian	OW	APD	
UTE TRIBAL 16-17D-55	17	050S	050W	4301333622		Indian	OW	APD	
UTE TRIBAL 15-28D-55	28	050S	050W	4301333623		Indian	OW	APD	
LC TRIBAL 14-16D-56	16	050S	060W	4301334283		Indian	OW	APD	
FEDERAL 10-10D-65	10	060S	050W	4301350523		Federal	OW	APD	
LC TRIBAL 3-23D-56	23	050S	060W	4301350624		Indian	OW	APD	
FEDERAL 2-1D-64	1	060S	040W	4301350765		Federal	OW	APD	
FEDERAL 7-1D-64	1	060S	040W	4301350766		Federal	OW	APD	
FEDERAL 9-1D-64	1	060S	040W	4301350767		Federal	OW	APD	
LC TRIBAL 1-28D-56	28	050S	060W	4301350865		Indian	OW	APD	
LC TRIBAL 13H-9-56	10	050S	060W	4301350874		Indian	OW	APD	
CC FEE 8-24-38	24	030S	080W	4301350885		Fee	OW	APD	
LC TRIBAL 4H-26-56	26	050S	060W	4301350951		Indian	OW	APD	
LC FEE 4H-12-57	12	050S	070W	4301350952		Fee	OW	APD	
CC TRIBAL 4-2-48	2	040S	080W	4301350964		Indian	OW	APD	
LC TRIBAL 5H-34-45	34	040S	050W	4301350974		Indian	OW	APD	
LC TRIBAL 11-34-45	34	040S	050W	4301350975		Indian	OW	APD	
LC TRIBAL 7-2D-56	2	050S	060W	4301350988		Indian	OW	APD	
LC TRIBAL 10-18D-56	18	050S	060W	4301350989		Indian	OW	APD	
CC TRIBAL 4-30D-38	19	030S	080W	4301350993		Indian	OW	APD	
FEDERAL 4-1-65	1	060S	050W	4301351016		Federal	OW	APD	
LC TRIBAL 3-16D-56	16	050S	060W	4301351032		Indian	OW	APD	
CC FEE 6-21-38	21	030S	080W	4301351059		Fee	OW	APD	
LC TRIBAL 13H-28-45	28	040S	050W	4301351061		Indian	OW	APD	
LC TRIBAL 5H-23-45	23	040S	050W	4301351071		Indian	OW	APD	
LC TRIBAL 4H-27-45	27	040S	050W	4301351072		Indian	OW	APD	
LC TRIBAL 16-27-45	27	040S	050W	4301351074		Indian	OW	APD	
LC TRIBAL 12-27-45	27	040S	050W	4301351075		Indian	OW	APD	
LC TRIBAL 16-23-45	23	040S	050W	4301351077		Indian	OW	APD	
LC TRIBAL 12H-30-56	30	050S	060W	4301351133		Indian	OW	APD	
LC TRIBAL 5-29D-56	29	050S	060W	4301351184		Indian	OW	APD	
LC TRIBAL 12H-19-56	19	050S	060W	4301351193		Indian	OW	APD	
LC FEE 15-11D-56	11	050S	060W	4301351197		Fee	OW	APD	
LC TRIBAL 13H-10-56	11	050S	060W	4301351209		Indian	OW	APD	
LC TRIBAL 2-31D-45	31	040S	050W	4301351261		Indian	OW	APD	
LC TRIBAL 13H-24-45	24	040S	050W	4301351273		Indian	OW	APD	
UTE TRIBAL 6-21D-55	21	050S	050W	4301351274		Indian	OW	APD	
UTE TRIBAL 15-16D-55	16	050S	050W	4301351284		Indian	OW	APD	
UTE TRIBAL 4H-15-55	15	050S	050W	4301351292		Indian	OW	APD	
UTE TRIBAL 13H-14-54	14	050S	040W	4301351297		Indian	OW	APD	
UTE TRIBAL 1-32-55	32	050S	050W	4301351298		Indian	OW	APD	
UTE TRIBAL 4-21D-55	21	050S	050W	4301351299		Indian	OW	APD	
LC TRIBAL 12-33-45	33	040S	050W	4301351301		Indian	OW	APD	
UTE TRIBAL 16-15D-55	15	050S	050W	4301351302		Indian	OW	APD	
UTE TRIBAL 2-24-55	24	050S	050W	4301351304		Indian	OW	APD	
LC TRIBAL 11-32D-56	32	050S	060W	4301351315		Indian	OW	APD	
LC TRIBAL 1-32D-56	32	050S	060W	4301351317		Indian	OW	APD	
LC TRIBAL 5H-32-56	32	050S	060W	4301351318		Indian	OW	APD	
LC TRIBAL 5H-33-45	33	040S	050W	4301351338		Indian	OW	APD	
LC TRIBAL 14-28-45	28	040S	050W	4301351339		Indian	OW	APD	
LC TRIBAL 16-32D-45	32	040S	050W	4301351340		Indian	OW	APD	
LC TRIBAL 3-31-45	31	040S	050W	4301351347		Indian	OW	APD	
LC TRIBAL 1-18D-56	18	050S	060W	4301351367		Indian	OW	APD	
LC TRIBAL 9-18D-56	18	050S	060W	4301351368		Indian	OW	APD	
LC FEE 9-23D-56	23	050S	060W	4301351380		Fee	OW	APD	
LC TRIBAL 1-34D-45	34	040S	050W	4301351382		Indian	OW	APD	
LC TRIBAL 12-21D-56	21	050S	060W	4301351383		Indian	OW	APD	
LC TRIBAL 7-29D-56	29	050S	060W	4301351386		Indian	OW	APD	

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UTE TRIBAL 6-15-55	15	050S	050W	4301351399	Indian	OW	APD
UTE TRIBAL 13H-21-55	21	050S	050W	4301351403	Indian	OW	APD
LC TRIBAL 6-16D-56	16	050S	060W	4301351406	Indian	OW	APD
LC TRIBAL 3-14D-56	14	050S	060W	4301351408	Indian	OW	APD
CC FEE 13-9D-37	9	030S	070W	4301351409	Fee	OW	APD
CC FEE 16-21D-38	21	030S	080W	4301351410	Fee	OW	APD
UTE TRIBAL 5H-10-54	10	050S	040W	4301351415	Indian	OW	APD
LC TRIBAL 13-6D-57	6	050S	070W	4301351417	Indian	OW	APD
LC TRIBAL 9-23-45	23	040S	050W	4301351432	Indian	OW	APD
LC TRIBAL 5-28D-56	29	050S	060W	4301351441	Indian	OW	APD
LC TRIBAL 15-20D-56	29	050S	060W	4301351443	Indian	OW	APD
LC FEE 14-1-56	1	050S	060W	4301351457	Fee	OW	APD
LC TRIBAL 5-3D-56	3	050S	060W	4301351459	Indian	OW	APD
LC Tribal 16-33-45	33	040S	050W	4301351463	Indian	OW	APD
LC TRIBAL 7-23D-56	23	050S	060W	4301351479	Indian	OW	APD
LC TRIBAL 4-7-56	7	050S	060W	4301351482	Indian	OW	APD
LC TRIBAL 3-2-56	2	050S	060W	4301351483	Indian	OW	APD
LC TRIBAL 12H-23-56	23	050S	060W	4301351488	Indian	OW	APD
CC TRIBAL 15-34D-38	2	040S	080W	4301351490	Indian	OW	APD
CC TRIBAL 14-35D-38	2	040S	080W	4301351491	Indian	OW	APD
CC TRIBAL 8-3D-48	2	040S	080W	4301351493	Indian	OW	APD
LC TRIBAL 12HH-31-45	32	040S	050W	4301351499	Indian	OW	APD
LC TRIBAL 1-10D-56	10	050S	060W	4301351510	Indian	OW	APD
LC TRIBAL 3-10D-56	10	050S	060W	4301351511	Indian	OW	APD
LC TRIBAL 7-10D-56	10	050S	060W	4301351512	Indian	OW	APD
LC TRIBAL 9-29D-56	29	050S	060W	4301351513	Indian	OW	APD
UTE TRIBAL 1-16-55	16	050S	050W	4301351519	Indian	OW	APD
CC Tribal 3-27D-38	27	030S	080W	4301351604	Indian	OW	APD
LC FEE 10-36D-56	36	050S	060W	4301351622	Fee	OW	APD
Myrin Fee 3-16D-55	16	050S	050W	4301351633	Fee	OW	APD
LC TRIBAL 12H-34-56	34	050S	060W	4301351634	Indian	OW	APD
UTE FEE 12-16D-55	16	050S	050W	4301351635	Fee	OW	APD
LC TRIBAL 15-27-56	27	050S	060W	4301351649	Indian	OW	APD
LC TRIBAL 11-27D-56	27	050S	060W	4301351650	Indian	OW	APD
LC TRIBAL 1-17-56	17	050S	060W	4301351704	Indian	OW	APD
LC Tribal 13-11D-58	11	050S	080W	4301351708	Indian	OW	APD
LC Tribal 15-11D-58	11	050S	080W	4301351709	Indian	OW	APD
LC Tribal 4HW-8-56	8	050S	060W	4301351710	Indian	OW	APD
LC FEE 1-11D-56	11	050S	060W	4301351712	Fee	OW	APD
LC TRIBAL 3-11D-56	11	050S	060W	4301351713	Indian	OW	APD
LC TRIBAL 7-11D-56	11	050S	060W	4301351714	Indian	OW	APD
LC TRIBAL 9-34D-45	34	040S	050W	4301351717	Indian	OW	APD
LC Tribal 8M-23-45	23	040S	050W	4301351722	Indian	OW	APD
LC TRIBAL 4-34D-45	34	040S	050W	4301351723	Indian	OW	APD
LC TRIBAL 7-34D-45	34	040S	050W	4301351724	Indian	OW	APD
LC Tribal 3-14D-58	11	050S	080W	4301351726	Indian	OW	APD
LC Tribal 11-11D-58	11	050S	080W	4301351729	Indian	OW	APD
LC TRIBAL 8-31D-56	31	050S	060W	4301351746	Indian	OW	APD
LC TRIBAL 13-34D-45	34	040S	050W	4301351747	Indian	OW	APD
LC Fee 2-6D-57	6	050S	070W	4301351749	Fee	OW	APD
LC Tribal 15-12D-58	12	050S	080W	4301351783	Indian	OW	APD
LC Tribal 9-12D-58	12	050S	080W	4301351784	Indian	OW	APD
LC Tribal 1-13D-58	12	050S	080W	4301351785	Indian	OW	APD
LC Tribal 13-7D-57	12	050S	080W	4301351786	Indian	OW	APD
LC Tribal 9-2D-58	2	050S	080W	4301351788	Indian	OW	APD
LC Tribal 1-2D-58	2	050S	080W	4301351789	Indian	OW	APD
LC Tribal 5-1D-58	2	050S	080W	4301351790	Indian	OW	APD
LC TRIBAL 12-31D-56	31	050S	060W	4301351799	Indian	OW	APD
LC TRIBAL 8-20D-56	20	050S	060W	4301351800	Indian	OW	APD
LC TRIBAL 6-31D-56	31	050S	060W	4301351801	Indian	OW	APD
LC Tribal 11-7D-57	7	050S	070W	4301351814	Indian	OW	APD
LC Tribal 5-7D-57	7	050S	070W	4301351815	Indian	OW	APD
LC Fee 15-6D-57	6	050S	070W	4301351816	Fee	OW	APD
LC Tribal 11-6D-57	6	050S	070W	4301351817	Indian	OW	APD
LC TRIBAL 9-27-56	27	050S	060W	4301351822	Indian	OW	APD
LC TRIBAL 7-27D-56	27	050S	060W	4301351823	Indian	OW	APD

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LC Fee 7-31D-45	31	040S	050W	4301351857	Fee	OW	APD
LC Tribal 5-31D-45	31	040S	050W	4301351858	Indian	OW	APD
LC Tribal 8-33-45	33	040S	050W	4301351859	Indian	OW	APD
LC Tribal 16-31-45	31	040S	050W	4301351863	Indian	OW	APD
LC Tribal 7-23D-45	23	040S	050W	4301351865	Indian	OW	APD
LC Tribal 1-23D-56	23	050S	060W	4301351866	Indian	OW	APD
LC TRIBAL 1-19-56	19	050S	060W	4301351867	Indian	OW	APD
LC TRIBAL 7-19D-56	19	050S	060W	4301351868	Indian	OW	APD
LC TRIBAL 9-4D-56	4	050S	060W	4301351869	Indian	OW	APD
LC Tribal 14-32D-45	32	040S	050W	4301351879	Indian	OW	APD
LC TRIBAL 7-17D-56	17	050S	060W	4301351886	Indian	OW	APD
LC TRIBAL 5-17D-56	17	050S	060W	4301351887	Indian	OW	APD
LC FEE 4-32D-45	31	040S	050W	4301351892	Fee	OW	APD
LC TRIBAL 9-2D-56	2	050S	060W	4301351893	Indian	OW	APD
LC TRIBAL 1-2D-56	2	050S	060W	4301351894	Indian	OW	APD
LC Tribal 15-23D-45	23	040S	050W	4301351895	Indian	OW	APD
LC TRIBAL 11-34D-56	34	050S	060W	4301351900	Indian	OW	APD
LC TRIBAL 9-5D-56	4	050S	060W	4301351901	Indian	OW	APD
LC Tribal 10-28D-45	28	040S	050W	4301351903	Indian	OW	APD
LC TRIBAL 13-20D-56	20	050S	060W	4301351904	Indian	OW	APD
Ute Tribal 14-17-55	17	050S	050W	4301351908	Indian	OW	APD
LC Tribal 3-27D-45	27	040S	050W	4301351911	Indian	OW	APD
LC TRIBAL 9-34D-56	34	050S	060W	4301351914	Indian	OW	APD
CC Fee 8R-9-37	9	030S	070W	4301351937	Fee	OW	APD
LC Tribal 10-33D-45	33	040S	050W	4301351939	Indian	OW	APD
LC Tribal 14-33D-45	33	040S	050W	4301351940	Indian	OW	APD
LC Tribal 10-27D-45	27	040S	050W	4301351941	Indian	OW	APD
LC Tribal 14-27D-45	27	040S	050W	4301351951	Indian	OW	APD
LC Tribal 6-33D-45	33	040S	050W	4301351955	Indian	OW	APD
LC Tribal 6-32D-45	32	040S	050W	4301351956	Indian	OW	APD
Federal 3-11D-65	11	060S	050W	4301351982	Federal	OW	APD
Federal 2-4-64	4	060S	040W	4301351983	Federal	OW	APD
Federal 5-11D-65	11	060S	050W	4301351984	Federal	OW	APD
Federal 7-4D-64	4	060S	040W	4301351985	Federal	OW	APD
Federal 3-4D-64	4	060S	040W	4301351986	Federal	OW	APD
Federal 8-4D-64	4	060S	040W	4301351988	Federal	OW	APD
Federal 6-4D-64	4	060S	040W	4301351989	Federal	OW	APD
Federal 7-9D-64	9	060S	040W	4301351990	Federal	OW	APD
Federal 4-4D-64	4	060S	040W	4301351991	Federal	OW	APD
Federal 9-4D-64	4	060S	040W	4301352004	Federal	OW	APD
Federal 10-4D-64	4	060S	040W	4301352011	Federal	OW	APD
Federal 3-9D-64	9	060S	040W	4301352015	Federal	OW	APD
Federal 1-9D-64	9	060S	040W	4301352020	Federal	OW	APD
Federal 6-9-64	9	060S	040W	4301352021	Federal	OW	APD
Federal 8-9D-64	9	060S	040W	4301352023	Federal	OW	APD
Federal 1-4D-64	4	060S	040W	4301352025	Federal	OW	APD
Federal 16-4D-64	4	060S	040W	4301352026	Federal	OW	APD
LC Tribal 10-23D-45	23	040S	050W	4301352029	Indian	OW	APD
Federal 15-4D-64	4	060S	040W	4301352032	Federal	OW	APD
Federal 5-9D-64	9	060S	040W	4301352035	Federal	OW	APD
Federal 9-9D-64	9	060S	040W	4301352036	Federal	OW	APD
Federal 11-9D-64	9	060S	040W	4301352037	Federal	OW	APD
Federal 12-9D-64	9	060S	040W	4301352038	Federal	OW	APD
Federal 13-9D-64	9	060S	040W	4301352039	Federal	OW	APD
FEDERAL 14-9D-64	9	060S	040W	4301352040	Federal	OW	APD
Federal 10-9D-64	9	060S	040W	4301352041	Federal	OW	APD
Federal 2-9D-64	9	060S	040W	4301352042	Federal	OW	APD
Federal 15-9D-64	9	060S	040W	4301352043	Federal	OW	APD
Federal 16-9D-64	9	060S	040W	4301352044	Federal	OW	APD
LC Tribal 10-32D-45	32	040S	050W	4301352065	Indian	OW	APD
LC Tribal 16-28D-45	28	040S	050W	4301352073	Indian	OW	APD
LC Tribal 15-24D-45	24	040S	050W	4301352074	Indian	OW	APD
LC Tribal 13-17D-56	17	050S	060W	4301352076	Indian	OW	APD
LC Tribal 15-17D-56	17	050S	060W	4301352077	Indian	OW	APD
LC Tribal 5-26D-56	26	050S	060W	4301352097	Indian	OW	APD
LC Tribal 11-26D-56	26	050S	060W	4301352098	Indian	OW	APD

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LC Tribal 13-26D-56	26	050S	060W	4301352099	Indian	OW	APD	
LC Tribal 2-27D-45	27	040S	050W	4301352100	Indian	OW	APD	
LC Tribal 8-27D-45	27	040S	050W	4301352101	Indian	OW	APD	
LC Tribal 4-9D-56	9	050S	060W	4301352102	Indian	OW	APD	
LC Tribal 8-32D-45	32	040S	050W	4301352135	Indian	OW	APD	
UTE Tribal 15-24D-54	24	050S	040W	4301352156	Indian	GW	APD	
UTE Tribal 9-24D-54	24	050S	040W	4301352157	Indian	GW	APD	
UTE Tribal 1-25D-54	25	050S	040W	4301352173	Indian	GW	APD	
UTE Tribal 9-25D-54	25	050S	040W	4301352177	Indian	GW	APD	
Myrin Tribal 9-10D-55	10	050S	050W	4301352189	Indian	OW	APD	
Myrin Tribal 16-10D-55	10	050S	050W	4301352190	Indian	OW	APD	
Myrin Tribal 10-10D-55	10	050S	050W	4301352191	Indian	OW	APD	
UTE Tribal 1-24D-54	24	050S	040W	4301352304	Indian	GW	APD	
UTE Tribal 7-24D-54	24	050S	040W	4301352306	Indian	GW	APD	
UTE Tribal 12-25D-54	25	050S	040W	4301352308	Indian	GW	APD	
UTE Tribal 4-13D-54	13	050S	040W	4301352321	Indian	GW	APD	
UTE Tribal 13-25D-54	25	050S	040W	4301352322	Indian	GW	APD	
Abbott Fee 1-6D-54	6	050S	040W	4301352324	Fee	OW	APD	
Abbott Fee 7-6D-54	6	050S	040W	4301352327	Fee	OW	APD	
UTE Tribal 3-24D-54	24	050S	040W	4301352347	Indian	GW	APD	
UTE Tribal 5-24D-54	24	050S	040W	4301352348	Indian	GW	APD	
State Tribal 7-12D-55	12	050S	050W	4301352369	Indian	OW	APD	
State Tribal 14-1D-55	1	050S	050W	4301352372	Indian	OW	APD	
State Tribal 11-1D-55	1	050S	050W	4301352373	Indian	OW	APD	
State Tribal 13-1D-55	1	050S	050W	4301352374	Indian	OW	APD	
State Tribal 12-2D-55	2	050S	050W	4301352391	Indian	OW	APD	
State Tribal 14-2D-55	2	050S	050W	4301352392	Indian	OW	APD	
State Tribal 13-2D-55	2	050S	050W	4301352393	Indian	OW	APD	
State Tribal 14-3D-55	3	050S	050W	4301352430	Indian	OW	APD	
State Tribal 11-3D-55	3	050S	050W	4301352434	Indian	OW	APD	
State Tribal 13-3D-55	3	050S	050W	4301352435	Indian	OW	APD	
UTE TRIBAL 2-5D-55	5	050S	050W	4301352450	Indian	OW	APD	
Ute Tribal 1-5D-55	5	050S	050W	4301352456	Indian	OW	APD	BRUNDAGE CANYON
Ute Tribal 7-5-55	5	050S	050W	4301352459	Indian	OW	APD	
Ute Tribal 3-16D-54	9	050S	040W	4301352467	Indian	OW	APD	
State Tribal 1-3D-55	3	050S	050W	4301352471	Indian	OW	APD	
State Tribal 2-3D-55	3	050S	050W	4301352472	Indian	OW	APD	
State Tribal 7-3D-55	3	050S	050W	4301352473	Indian	OW	APD	
State Tribal 8-3D-55	3	050S	050W	4301352474	Indian	OW	APD	
UTE FEE 10-9D-54	9	050S	040W	4301352475	Fee	OW	APD	
UTE FEE 12-9D-54	9	050S	040W	4301352476	Fee	OW	APD	
UTE FEE 16-9D-54	9	050S	040W	4301352478	Fee	OW	APD	
Ute Tribal 2-16D-54	9	050S	040W	4301352481	Indian	OW	APD	
Federal 14-6D-65	6	060S	050W	4301352495	Federal	OW	APD	
Federal 13-6D-65	6	060S	050W	4301352496	Federal	OW	APD	
Federal 11-6D-65	6	060S	050W	4301352497	Federal	OW	APD	
Federal 10-6D-65	6	060S	050W	4301352498	Federal	OW	APD	
State Tribal 3-3D-55	3	050S	050W	4301352532	Indian	OW	APD	
State Tribal 4-3D-55	3	050S	050W	4301352533	Indian	OW	APD	
State Tribal 5-3D-55	3	050S	050W	4301352535	Indian	OW	APD	
State Tribal 6-3D-55	3	050S	050W	4301352536	Indian	OW	APD	
Federal 2-7D-65	7	060S	050W	4301352537	Federal	OW	APD	
Federal 5-7D-65	7	060S	050W	4301352538	Federal	OW	APD	
Federal 4-7D-65	7	060S	050W	4301352541	Federal	OW	APD	
UTE FEE 11-9D-54	9	050S	040W	4301352544	Fee	OW	APD	
UTE TRIBAL 15-12D-55	12	050S	050W	4301352549	Indian	OW	APD	
UTE TRIBAL 6-5D-55	5	050S	050W	4301352556	Indian	OW	APD	
UTE TRIBAL 5-5D-55	5	050S	050W	4301352557	Indian	OW	APD	
UTE TRIBAL 4-5D-55	5	050S	050W	4301352558	Indian	OW	APD	
UTE TRIBAL 3-5D-55	5	050S	050W	4301352559	Indian	OW	APD	
Federal 3-7-65	7	060S	050W	4301352560	Federal	OW	APD	
Ute Tribal 9-11D-55	11	050S	050W	4301352564	Indian	OW	APD	
UTE TRIBAL 10-11D-55	11	050S	050W	4301352566	Indian	OW	APD	
UTE TRIBAL 15-11D-55	11	050S	050W	4301352567	Indian	OW	APD	
Federal 1-7D-65	6	060S	050W	4301352589	Federal	OW	APD	
Federal 16-6D-65	6	060S	050W	4301352590	Federal	OW	APD	

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Federal 15-6D-65	6	060S	050W	4301352591	Federal	OW	APD
UTE TRIBAL 14-12D-55	12	050S	050W	4301352592	Indian	OW	APD
UTE TRIBAL 13-12D-55	12	050S	050W	4301352593	Indian	OW	APD
UTE TRIBAL 10-11D-54	11	050S	040W	4301352603	Indian	OW	APD
UTE TRIBAL 9-11D-54	11	050S	040W	4301352604	Indian	OW	APD
UTE TRIBAL 15-11-54	11	050S	040W	4301352605	Indian	OW	APD
UTE TRIBAL 16-11D-54	11	050S	040W	4301352606	Indian	OW	APD
UTE TRIBAL 14-11D-55	11	050S	050W	4301352610	Indian	OW	APD
UTE TRIBAL 13-11D-55	11	050S	050W	4301352611	Indian	OW	APD
UTE TRIBAL 12-11D-55	11	050S	050W	4301352612	Indian	OW	APD
UTE TRIBAL 11-11D-55	11	050S	050W	4301352613	Indian	OW	APD
Federal 6-7D-65	7	060S	050W	4301352682	Federal	OW	APD
Federal 11-7D-65	7	060S	050W	4301352683	Federal	OW	APD
Federal 10-7D-65	7	060S	050W	4301352684	Federal	OW	APD
Federal 7-7D-65	7	060S	050W	4301352685	Federal	OW	APD
UTE TRIBAL 14-30D-55	30	050S	050W	4301352687	Indian	OW	APD
UTE TRIBAL 13-30D-55	30	050S	050W	4301352688	Indian	OW	APD
UTE TRIBAL 12-30D-55	30	050S	050W	4301352689	Indian	OW	APD
UTE TRIBAL 11-30D-55	30	050S	050W	4301352690	Indian	OW	APD
UTE TRIBAL 7-17D-55	17	050S	050W	4301352691	Indian	OW	APD
UTE TRIBAL 6-17D-55	17	050S	050W	4301352692	Indian	OW	APD
UTE TRIBAL 3-17D-55	17	050S	050W	4301352693	Indian	OW	APD
UTE TRIBAL 2-17D-55	17	050S	050W	4301352694	Indian	OW	APD
UTE TRIBAL 4-17D-55	17	050S	050W	4301352695	Indian	OW	APD
State Tribal 3-12D-55	12	050S	050W	4301352697	Indian	OW	APD
State Tribal 4-12D-55	12	050S	050W	4301352698	Indian	OW	APD
UTE TRIBAL 12-31D-55	31	050S	050W	4301352699	Indian	OW	APD
UTE TRIBAL 13-31D-55	31	050S	050W	4301352700	Indian	OW	APD
UTE TRIBAL 14-31D-55	31	050S	050W	4301352701	Indian	OW	APD
UTE TRIBAL 14-13D-54	13	050S	040W	4301352702	Indian	OW	APD
UTE TRIBAL 11-31-55	31	050S	050W	4301352703	Indian	OW	APD
State Tribal 3-11D-55	11	050S	050W	4301352704	Indian	OW	APD
State Tribal 4-11D-55	11	050S	050W	4301352705	Indian	OW	APD
State Tribal 5-11D-55	11	050S	050W	4301352706	Indian	OW	APD
State Tribal 6-11D-55	11	050S	050W	4301352707	Indian	OW	APD
State Tribal 8-11D-55	11	050S	050W	4301352708	Indian	OW	APD
State Tribal 7-11D-55	11	050S	050W	4301352709	Indian	OW	APD
State Tribal 2-11D-55	11	050S	050W	4301352710	Indian	OW	APD
State Tribal 1-11D-55	11	050S	050W	4301352711	Indian	OW	APD
UTE TRIBAL 9-4D-55	4	050S	050W	4301352713	Indian	OW	APD
State Tribal 2-10D-55	10	050S	050W	4301352714	Indian	OW	APD
State Tribal 7-10D-55	10	050S	050W	4301352715	Indian	OW	APD
State Tribal 8-10D-55	10	050S	050W	4301352716	Indian	OW	APD
UTE TRIBAL 10-4D-55	4	050S	050W	4301352717	Indian	OW	APD
UTE TRIBAL 15-4D-55	4	050S	050W	4301352718	Indian	OW	APD
State Tribal 1-10D-55	10	050S	050W	4301352720	Indian	OW	APD
UTE TRIBAL 16-4D-55	4	050S	050W	4301352721	Indian	OW	APD
State Tribal 3-10D-55	10	050S	050W	4301352723	Indian	OW	APD
State Tribal 4-10D-55	10	050S	050W	4301352724	Indian	OW	APD
State Tribal 5-10D-55	10	050S	050W	4301352725	Indian	OW	APD
State Tribal 6-10D-55	10	050S	050W	4301352726	Indian	OW	APD
UTE TRIBAL 11-5D-55	5	050S	050W	4301352727	Indian	OW	APD
UTE TRIBAL 12-5D-55	5	050S	050W	4301352728	Indian	OW	APD
UTE TRIBAL 13-5D-55	5	050S	050W	4301352729	Indian	OW	APD
UTE TRIBAL 14-5D-55	5	050S	050W	4301352730	Indian	OW	APD
UTE TRIBAL 9-30D-55	30	050S	050W	4301352731	Indian	OW	APD
State Tribal 15-2D-55	2	050S	050W	4301352732	Indian	OW	APD
State Tribal 16-2D-55	2	050S	050W	4301352733	Indian	OW	APD
State Tribal 10-2D-55	2	050S	050W	4301352734	Indian	OW	APD
State Tribal 9-2D-55	2	050S	050W	4301352735	Indian	OW	APD
UTE TRIBAL 10-30D-55	30	050S	050W	4301352736	Indian	OW	APD
UTE TRIBAL 15-30D-55	30	050S	050W	4301352737	Indian	OW	APD
UTE TRIBAL 16-30D-55	30	050S	050W	4301352738	Indian	OW	APD
Myrin Tribal 9-19D-55	19	050S	050W	4301352739	Indian	OW	APD
State Tribal 16-3D-55	3	050S	050W	4301352740	Indian	OW	APD
State Tribal 15-3D-55	3	050S	050W	4301352741	Indian	OW	APD

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State Tribal 10-3D-55	3	050S	050W	4301352742		Indian	OW	APD	
State Tribal 9-3D-55	3	050S	050W	4301352743		Indian	OW	APD	
Myrin Tribal 15-19D-55	19	050S	050W	4301352744		Indian	OW	APD	
Myrin Tribal 13-19D-55	19	050S	050W	4301352745		Indian	OW	APD	
Myrin Tribal 12-19D-55	19	050S	050W	4301352746		Indian	OW	APD	
UTE TRIBAL 5-4D-55	4	050S	050W	4301352747		Indian	OW	APD	
UTE TRIBAL 4-4D-55	4	050S	050W	4301352748		Indian	OW	APD	
UTE TRIBAL 3-4D-55	4	050S	050W	4301352749		Indian	OW	APD	
UTE TRIBAL 6-4D-55	4	050S	050W	4301352754		Indian	OW	APD	
UTE TRIBAL 3-31D-55	31	050S	050W	4301352757		Indian	OW	APD	
UTE TRIBAL 5-31D-55	31	050S	050W	4301352758		Indian	OW	APD	
UTE TRIBAL 6-31D-55	31	050S	050W	4301352759		Indian	OW	APD	
UTE TRIBAL 7-31D-55	31	050S	050W	4301352764		Indian	OW	APD	
Myrin Tribal 11-19D-55	19	050S	050W	4301352765		Indian	OW	APD	
Federal 8-14D-65	14	060S	050W	4301352767		Federal	OW	APD	
Federal 7-14D-65	14	060S	050W	4301352768		Federal	OW	APD	
Federal 2-14D-65	14	060S	050W	4301352769		Federal	OW	APD	
Federal 1-14D-65	14	060S	050W	4301352770		Federal	OW	APD	
UTE TRIBAL 8-5D-55	5	050S	050W	4301352773		Indian	OW	APD	
UTE TRIBAL 4-31D-55	31	050S	050W	4301352795		Indian	OW	APD	
UTE TRIBAL 4-30D-55	30	050S	050W	4301352796		Indian	OW	APD	
UTE TRIBAL 5-30D-55	30	050S	050W	4301352797		Indian	OW	APD	
UTE TRIBAL 7-30D-55	30	050S	050W	4301352799		Indian	OW	APD	
Federal 1-13D-65	13	060S	050W	4301352800		Federal	OW	APD	
Federal 7-13D-65	13	060S	050W	4301352802		Federal	OW	APD	
UTE TRIBAL 1-30D-55	30	050S	050W	4301352809		Indian	OW	APD	
LC TRIBAL 6-25D-56	25	050S	060W	4301352810		Indian	OW	APD	
LC TRIBAL 4-25D-56	25	050S	060W	4301352812		Indian	OW	APD	
Federal 6-13D-65	13	060S	050W	4301352813		Federal	OW	APD	
Federal 4-13D-65	13	060S	050W	4301352814		Federal	OW	APD	
Federal 3-13D-65	13	060S	050W	4301352815		Federal	OW	APD	
Federal 3-16D-64	16	060S	040W	4301352823		Federal	OW	APD	
Federal 4-16D-64	16	060S	040W	4301352824		Federal	OW	APD	
Federal 5-16D-64	16	060S	040W	4301352825		Federal	OW	APD	
Federal 6-16D-64	16	060S	040W	4301352826		Federal	OW	APD	
Federal 5-13D-65	13	060S	050W	4301352827		Federal	OW	APD	
LC TRIBAL 1-25D-56	25	050S	060W	4301352835		Indian	OW	APD	
LC TRIBAL 2-25D-56	25	050S	060W	4301352836		Indian	OW	APD	
LC TRIBAL 8-25D-56	25	050S	060W	4301352837		Indian	OW	APD	
UTE FEE 1-13D-55	13	050S	050W	4301352838		Fee	OW	APD	
LC TRIBAL 9-25D-56	25	050S	060W	4301352840		Indian	OW	APD	
LC TRIBAL 15-25-56	25	050S	060W	4301352844		Indian	OW	APD	
Federal 9-5D-65	5	060S	050W	4301352846		Federal	OW	APD	
Federal 10-5D-65	5	060S	050W	4301352847		Federal	OW	APD	
LC TRIBAL 16-25D-56	25	050S	060W	4301352848		Indian	OW	APD	
LC TRIBAL 10-25D-56	25	050S	060W	4301352849		Indian	OW	APD	
UTE TRIBAL 8-30D-55	29	050S	050W	4301352855		Indian	OW	APD	
UTE TRIBAL 9-29D-55	29	050S	050W	4301352870		Indian	OW	APD	
UTE TRIBAL 6-24D-55	24	050S	050W	4301352871		Indian	OW	APD	
UTE TRIBAL 16-17D-55	17	050S	050W	4301352872		Indian	OW	APD	
UTE TRIBAL 13-27D-55	27	050S	050W	4301352882		Indian	OW	APD	
UTE TRIBAL 4-29D-55	29	050S	050W	4301352883		Indian	OW	APD	
UTE TRIBAL 1-29D-55	29	050S	050W	4301352884		Indian	OW	APD	
Federal 4-2D-65	2	060S	050W	4301352885		Federal	OW	APD	
Federal 5-2D-65	2	060S	050W	4301352886		Federal	OW	APD	
Federal 12-2D-65	2	060S	050W	4301352887		Federal	OW	APD	
LC TRIBAL 12-25D-56	25	050S	060W	4301352888		Indian	OW	APD	
LC TRIBAL 13-25D-56	25	050S	060W	4301352890		Indian	OW	APD	
LC TRIBAL 14-25D-56	25	050S	060W	4301352891		Indian	OW	APD	
Federal 15-3D-65	3	060S	050W	4301352892		Federal	OW	APD	
Federal 9-3D-65	3	060S	050W	4301352893		Federal	OW	APD	
Federal 8-3D-65	3	060S	050W	4301352894		Federal	OW	APD	
Federal 6-3D-65	3	060S	050W	4301352895		Federal	OW	APD	
UTE TRIBAL 6-28D-55	28	050S	050W	4301334056	18593	Indian	OW	DRL	
MOON TRIBAL 9-27D-54	27	050S	040W	4301334108	19095	Indian	OW	DRL	
LC TRIBAL 9-16D-56	16	050S	060W	4301350600	99999	Indian	OW	DRL	

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FEDERAL 15-6D-64	6	060S	040W	4301351219	18793	Federal	OW	DRL	
UTE TRIBAL 9-21D-55	21	050S	050W	4301351258	19401	Indian	OW	DRL	
STATE TRIBAL 2-12D-55	12	050S	050W	4301351310	19444	Indian	OW	DRL	
UTE TRIBAL 7-10D-54	10	050S	040W	4301351365	19391	Indian	OW	DRL	
LC TRIBAL 9-26D-56	26	050S	060W	4301351381	19433	Indian	OW	DRL	
UTE TRIBAL 8-17D-55	17	050S	050W	4301351413	19388	Indian	OW	DRL	
LC TRIBAL 9-24D-45	24	040S	050W	4301351431	18861	Indian	OW	DRL	
LC TRIBAL 2-29D-45	29	040S	050W	4301351705	99999	Indian	OW	DRL	
LC TAYLOR FEE 14-22D-56	22	050S	060W	4301351744	19508	Fee	OW	DRL	
LC FEE 14-6D-56	6	050S	060W	4301351787	18910	Fee	OW	DRL	
LC FEE 15-6-56	6	050S	060W	4301351792	19334	Fee	OW	DRL	
LC Fee 14-36D-56	36	050S	060W	4301351878	19376	Fee	OW	DRL	
LC Fee 12-36-56	36	050S	060W	4301351883	19377	Fee	OW	DRL	
LC Tribal 6-29D-45	29	040S	050W	4301351902	19402	Indian	OW	DRL	
Federal 4-6D-65	6	060S	050W	4301352005	19173	Federal	OW	DRL	
Federal 12-6D-65	6	060S	050W	4301352006	19174	Federal	OW	DRL	
UTE Tribal 14-18D-54	18	050S	040W	4301352213	19509	Indian	GW	DRL	
UTE Tribal 15-31D-55	31	050S	050W	4301352309	19472	Indian	GW	DRL	
UTE Tribal 16-31D-55	31	050S	050W	4301352318	19473	Indian	GW	DRL	
State Tribal 1-12D-55	12	050S	050W	4301352390	19445	Indian	OW	DRL	
State Tribal 16-6D-54	6	050S	040W	4301352394	19424	Indian	OW	DRL	
State Tribal 10-6D-54	6	050S	040W	4301352395	19425	Indian	OW	DRL	
State Tribal 9-6D-54	6	050S	040W	4301352396	19426	Indian	OW	DRL	
State Tribal 7-7D-54	7	050S	040W	4301352426	19496	Indian	OW	DRL	
State Tribal 1-7D-54	7	050S	040W	4301352427	19497	Indian	OW	DRL	
State Tribal 2-7D-54	7	050S	040W	4301352428	19498	Indian	OW	DRL	
State Tribal 3-7D-54	7	050S	040W	4301352429	19517	Indian	OW	DRL	
State Tribal 4-7D-54	7	050S	040W	4301352431	99999	Indian	OW	DRL	
State Tribal 5-7D-54	7	050S	040W	4301352432	99999	Indian	OW	DRL	
State Tribal 6-7D-54	7	050S	040W	4301352433	19518	Indian	OW	DRL	
State Tribal 11-6D-54	6	050S	040W	4301352452	19474	Indian	OW	DRL	
State Tribal 12-6D-54	6	050S	040W	4301352453	19475	Indian	OW	DRL	
State Tribal 13-6D-54	6	050S	040W	4301352454	19476	Indian	OW	DRL	
State Tribal 14-6D-54	6	050S	040W	4301352455	19477	Indian	OW	DRL	
Ute Tribal 1-9D-54	9	050S	040W	4301352465	19356	Indian	OW	DRL	
Ute Tribal 7-9D-54	9	050S	040W	4301352466	19357	Indian	OW	DRL	
UTE TRIBAL 12-5D-54	5	050S	040W	4301352480	19499	Indian	OW	DRL	
UTE TRIBAL 13-5D-54	5	050S	040W	4301352484	19500	Indian	OW	DRL	
UTE TRIBAL 14-5D-54	5	050S	040W	4301352493	19510	Indian	OW	DRL	
State Tribal 13-11D-54	10	050S	040W	4301352561	19519	Indian	OW	DRL	
State Tribal 1-18D-54	18	050S	040W	4301352568	19434	Indian	OW	DRL	
State Tribal 2-18D-54	18	050S	040W	4301352576	19427	Indian	OW	DRL	
State Tribal 8-18D-54	18	050S	040W	4301352577	19428	Indian	OW	DRL	
State Tribal 4-18D-54	18	050S	040W	4301352607	19435	Indian	OW	DRL	
State Tribal 3-18D-54	18	050S	040W	4301352608	19436	Indian	OW	DRL	
State Tribal 6-18D-54	18	050S	040W	4301352609	19437	Indian	OW	DRL	
State Tribal 5-12-55	12	050S	050W	4301352643	19446	Indian	OW	DRL	
State Tribal 12-12D-55	12	050S	050W	4301352644	19447	Indian	OW	DRL	
State Tribal 6-12D-55	12	050S	050W	4301352645	19438	Indian	OW	DRL	
State Tribal 16-1D-55	1	050S	050W	4301352646	19483	Indian	OW	DRL	
State Tribal 15-1D-55	1	050S	050W	4301352647	19484	Indian	OW	DRL	
State Tribal 10-1D-55	1	050S	050W	4301352648	19485	Indian	OW	DRL	
State Tribal 9-1D-55	1	050S	050W	4301352649	19486	Indian	OW	DRL	
LC FEE 16-15D-56	14	050S	060W	4301352655	19520	Fee	OW	DRL	
LC Tribal 2-22D-56	22	050S	060W	4301352663	99999	Indian	OW	DRL	
LC Tribal 3-22D-56	22	050S	060W	4301352664	99999	Indian	OW	DRL	
Federal 2-13-65	13	060S	050W	4301352801	19501	Federal	OW	DRL	
Federal 8-13D-65	13	060S	050W	4301352803	19502	Federal	OW	DRL	
Federal 12-8D-64	7	060S	040W	4301352832	99999	Federal	OW	DRL	
Federal 5-8D-64	7	060S	040W	4301352833	99999	Federal	OW	DRL	
Federal 4-8D-64	7	060S	040W	4301352834	99999	Federal	OW	DRL	
Federal 3-8D-64	5	060S	040W	4301352845	19503	Federal	OW	DRL	
LC TRIBAL 4H-31-56	31	050S	060W	4301351738		Indian	OW	NEW	
Federal 14-7D-65	31	050S	060W	4301351910		Indian	OW	NEW	
LC Fee 11-22-57	22	050S	070W	4301352127		Fee	OW	NEW	
LC Fee 13-22D-57	22	050S	070W	4301352131		Fee	OW	NEW	

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LC Tribal 5-22D-57	22	050S	070W	4301352133		Indian	OW	NEW	
LC Tribal 15-22D-57	22	050S	070W	4301352134		Indian	OW	NEW	
LC Tribal 11-18D-56	18	050S	060W	4301352140		Indian	OW	NEW	
LC Tribal 13-18D-56	18	050S	060W	4301352141		Indian	OW	NEW	
LC Tribal 15-18D-56	18	050S	060W	4301352142		Indian	OW	NEW	
LC Tribal 7-18D-56	18	050S	060W	4301352153		Indian	OW	NEW	
LC Tribal 5-18D-56	18	050S	060W	4301352154		Indian	OW	NEW	
LC Tribal 3-18-56	18	050S	060W	4301352155		Indian	OW	NEW	
LC Tribal 6-19D-56	19	050S	060W	4301352247		Indian	OW	NEW	
LC Tribal 4-19D-56	19	050S	060W	4301352248		Indian	OW	NEW	
Abbott Fee 3-6D-54	6	050S	040W	4301352325		Fee	OW	NEW	
LC Fee 9-11D-56	11	050S	060W	4301352479		Fee	OW	NEW	
Williams Tribal 8-4D-54	4	050S	040W	4301352650		Indian	OW	NEW	
Williams Tribal 7-4D-54	4	050S	040W	4301352651		Indian	OW	NEW	
Williams Tribal 2-4D-54	4	050S	040W	4301352652		Indian	OW	NEW	
Williams Tribal 1-4D-54	4	050S	040W	4301352653		Indian	OW	NEW	
Federal 9-8D-64	9	060S	040W	4301352880		Federal	OW	NEW	
Federal 16-8D-64	9	060S	040W	4301352881		Federal	OW	NEW	
LC Nielsen Tribal 6-33D-56	33	050S	060W	4301352896		Indian	OW	NEW	
LC Nielsen Tribal 2-33D-56	33	050S	060W	4301352897		Indian	OW	NEW	
LC Nielsen Tribal 4-33D-56	33	050S	060W	4301352898		Indian	OW	NEW	
LC Nielsen Tribal 5-33D-56	33	050S	060W	4301352899		Indian	OW	NEW	
UTE FEE 13-9D-54	9	050S	040W	4301352906		Fee	OW	NEW	
UTE FEE 2-34D-55	27	050S	050W	4301352971		Fee	OW	NEW	
Federal 13-7D-65	7	060S	050W	4301352974		Federal	OW	NEW	
Federal 14-7D-65	7	060S	050W	4301352975		Federal	OW	NEW	
UTE TRIBAL 6-27D-55	27	050S	050W	4301352976		Indian	OW	NEW	
LC Nielsen Tribal 12-27D-56	27	050S	060W	4301352977		Indian	OW	NEW	
LC Nielsen Tribal 13-27D-56	27	050S	060W	4301352978		Indian	OW	NEW	
LC Nielsen Tribal 16-28D-56	27	050S	060W	4301352979		Indian	OW	NEW	
LC Nielsen Fee 9-28D-56	27	050S	060W	4301352980		Fee	OW	NEW	
LC FEE 9-36D-56	36	050S	060W	4301352982		Fee	OW	NEW	
LC FEE 15-36D-56	36	050S	060W	4301352983		Fee	OW	NEW	
LC TRIBAL 6-36D-56	36	050S	060W	4301352984		Indian	OW	NEW	
LC TRIBAL 5-36D-56	36	050S	060W	4301352985		Indian	OW	NEW	
LC TRIBAL 4-36D-56	36	050S	060W	4301352986		Indian	OW	NEW	
LC TRIBAL 3-36D-56	36	050S	060W	4301352987		Indian	OW	NEW	
LC TRIBAL 2-35D-56	35	050S	060W	4301352988		Indian	OW	NEW	
LC TRIBAL 1-35D-56	35	050S	060W	4301352989		Indian	OW	NEW	
UTE TRIBAL 13-3R-54	3	050S	040W	4301330924	9488	Indian	OW	OPS	
UTE TRIBAL 3-20D-55	20	050S	050W	4301333280	18424	Indian	OW	OPS	
LC TRIBAL 4H-17-56	17	050S	060W	4301333540	18067	Indian	OW	OPS	
LC TRIBAL 16-21-46	21	040S	060W	4301333575	16156	Indian	OW	OPS	
UTE TRIBAL 8-20D-55	20	050S	050W	4301333676	17308	Indian	OW	OPS	
UTE TRIBAL 14-14D-55	14	050S	050W	4301333699	18409	Indian	OW	OPS	
UTE TRIBAL 5-29D-55	29	050S	050W	4301333740	17306	Indian	OW	OPS	
UTE TRIBAL 7-32D-55	32	050S	050W	4301333794	18359	Indian	OW	OPS	
UTE TRIBAL 12-27D-55	27	050S	050W	4301333798	18360	Indian	OW	OPS	
FOY 9-33D-55	33	050S	050W	4301333802	17125	Fee	OW	OPS	
BERRY TRIBAL 2-23D-54	23	050S	040W	4301333805	18546	Indian	OW	OPS	
UTE TRIBAL 13-29D-55	29	050S	050W	4301333807	18378	Indian	OW	OPS	
UTE TRIBAL 16-28D-55	28	050S	050W	4301333887	18594	Indian	OW	OPS	
LC FEE 8-15D-56	15	050S	060W	4301350597	19347	Fee	OW	OPS	
SFW FEE 13-10D-54	10	050S	040W	4301350892	19186	Fee	OW	OPS	
SFW TRIBAL 11-10D-54	10	050S	040W	4301350893	19215	Indian	OW	OPS	
LC TRIBAL 5HH-5-56	4	050S	060W	4301350927	18463	Indian	OW	OPS	
LC TRIBAL 16-34D-45	34	040S	050W	4301350977	18658	Indian	OW	OPS	
LC TRIBAL 3-4D-56	4	050S	060W	4301351000	18852	Indian	OW	OPS	
FEDERAL 7-12D-65	12	060S	050W	4301351058	18717	Federal	OW	OPS	
LC TRIBAL 2-33D-45	33	040S	050W	4301351402	18854	Indian	OW	OPS	
LC TRIBAL 9-3D-56	3	050S	060W	4301351514	18948	Indian	OW	OPS	
LC Tribal 3-34D-56	34	050S	060W	4301352087	19234	Indian	OW	OPS	
LC Tribal 7-34D-56	34	050S	060W	4301352088	19235	Indian	OW	OPS	
Ute Tribal 5-9D-54	9	050S	040W	4301352463	19354	Indian	OW	OPS	
Ute Tribal 3-9D-54	9	050S	040W	4301352464	19355	Indian	OW	OPS	
BC UTE TRIBAL 4-22	22	050S	040W	4301330755	2620	Indian	OW	P	

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B C UTE TRIBAL 16-16	16	050S	040W	4301330841	9489	Indian	OW	P	
B C UTE TRIBAL 14-15	15	050S	040W	4301330842	9440	Indian	OW	P	
UTE TRIBAL 1-32R	32	050S	040W	4301330872	13020	Indian	OW	P	
UTE TRIBAL 23-3R	23	050S	040W	4301330886	13034	Indian	OW	P	
S COTTONWOOD RIDGE UTE TRIBAL 1-19	19	050S	040W	4301330933	9845	Indian	OW	P	BRUNDAGE CANYON
TABBY CYN UTE TRIBAL 1-25	25	050S	050W	4301330945	9722	Indian	OW	P	
S BRUNDAGE UTE TRIBAL 1-30	30	050S	040W	4301330948	9850	Indian	OW	P	
SOWERS CYN UTE TRIBAL 3-26	26	050S	050W	4301330955	10423	Indian	OW	P	
UTE TRIBAL 3-24R-55 (REENTRY)	24	050S	050W	4301330960	15173	Indian	OW	P	
UTE TRIBAL 1-20	20	050S	040W	4301330966	9925	Indian	OW	P	
T C UTE TRIBAL 9-23X	23	050S	050W	4301330999	9720	Indian	OW	P	
UTE TRIBAL 15-24R	24	050S	050W	4301331129	11985	Indian	OW	P	
S BRUNDAGE CYN UTE TRIBAL 4-27	27	050S	040W	4301331131	9851	Indian	OW	P	
UTE TRIBAL 5-13	13	050S	050W	4301331152	10421	Indian	OW	P	
UTE TRIBAL 7-20R-54	20	050S	040W	4301331281	14088	Indian	OW	P	
Z and T UTE TRIBAL 7-19	19	050S	040W	4301331282	11131	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 13-19	19	050S	040W	4301331284	11134	Indian	OW	P	
Z and T UTE TRIBAL 7-25	25	050S	050W	4301331310	11416	Indian	OW	P	
UTE TRIBAL 13-17	17	050S	040W	4301331546	11921	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 11-19	19	050S	040W	4301331547	11920	Indian	OW	P	
UTE TRIBAL 13-22	22	050S	040W	4301331548	11926	Indian	OW	P	
UTE TRIBAL 1-28	28	050S	040W	4301331549	11925	Indian	OW	P	
UTE TRIBAL 4-30	30	050S	040W	4301331550	11914	Indian	OW	P	
UTE TRIBAL 15-16	16	050S	040W	4301331648	11951	Indian	OW	P	
UTE TRIBAL 16-18	18	050S	040W	4301331650	11946	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 5-20	20	050S	040W	4301331651	11957	Indian	OW	P	
UTE TRIBAL 15-23	23	050S	050W	4301331671	11989	Indian	OW	P	
TABBY CANYON 1-21	21	050S	050W	4301331699	12225	Indian	OW	P	
TABBY CANYON 8-22	22	050S	050W	4301331700	12008	Indian	OW	P	
SOWERS CANYON 9-27	27	050S	050W	4301331701	11997	Indian	OW	P	
UTE TRIBAL 3-19	19	050S	040W	4301331830	12197	Indian	OW	P	
UTE TRIBAL 9-19	19	050S	040W	4301331831	12175	Indian	OW	P	
UTE TRIBAL 15-19	19	050S	040W	4301331832	12180	Indian	OW	P	
UTE TRIBAL 2-25	25	050S	050W	4301331833	12153	Indian	OW	P	
UTE TRIBAL 3-25	25	050S	050W	4301331834	12152	Indian	OW	P	
UTE TRIBAL 11-24	24	050S	050W	4301331909	12190	Indian	OW	P	
UTE TRIBAL 13-24	24	050S	050W	4301331910	12217	Indian	OW	P	
UTE TRIBAL 11-25	25	050S	050W	4301331911	12182	Indian	OW	P	
UTE TRIBAL 1-26	26	050S	050W	4301331912	12235	Indian	OW	P	
UTE TRIBAL 2-19	19	050S	040W	4301332140	12795	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 6-25H	25	050S	050W	4301332143	12750	Indian	OW	P	
UTE TRIBAL 9-18	18	050S	040W	4301332144	12746	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 11-17	17	050S	040W	4301332145	12747	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 12-17	17	050S	040W	4301332146	12745	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 14-17	17	050S	040W	4301332147	12755	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 15-18	18	050S	040W	4301332148	12794	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 6-22	22	050S	040W	4301332163	12974	Indian	OW	P	
UTE TRIBAL 6-21	21	050S	040W	4301332164	12994	Indian	OW	P	
UTE TRIBAL 7-28	28	050S	040W	4301332166	12995	Indian	OW	P	
UTE TRIBAL 11-20	20	050S	040W	4301332168	12946	Indian	OW	P	
UTE TRIBAL 13-25	25	050S	050W	4301332169	12857	Indian	OW	P	
UTE TRIBAL 2-27	27	050S	040W	4301332179	12975	Indian	OW	P	
UTE TRIBAL 1-33	33	050S	040W	4301332185	13024	Indian	OW	P	
UTE TRIBAL 1-34	34	050S	040W	4301332186	13121	Indian	OW	P	
UTE TRIBAL 2-35	35	050S	050W	4301332187	13021	Indian	OW	P	
UTE TRIBAL 4-36	36	050S	050W	4301332188	13063	Indian	OW	P	
UTE TRIBAL 5-28	28	050S	040W	4301332189	13026	Indian	OW	P	
UTE TRIBAL 5-31	31	050S	040W	4301332190	13080	Indian	OW	P	
UTE TRIBAL 9-26	26	050S	040W	4301332191	13101	Indian	OW	P	
UTE TRIBAL 11-28	28	050S	040W	4301332192	13022	Indian	OW	P	
UTE TRIBAL 3-29	29	050S	040W	4301332193	13042	Indian	OW	P	
UTE TRIBAL 5-19	19	050S	040W	4301332204	13090	Indian	OW	P	
UTE TRIBAL 12-15	15	050S	040W	4301332205	13100	Indian	OW	P	
UTE TRIBAL 13-20	20	050S	040W	4301332206	13048	Indian	OW	P	
UTE TRIBAL 1-24-55	24	050S	050W	4301332259	13618	Indian	OW	P	
UTE TRIBAL 3-28-54	28	050S	040W	4301332261	13644	Indian	OW	P	

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UTE TRIBAL 5-24-55	24	050S	050W	4301332263	13621	Indian	OW	P	
UTE TRIBAL 5-26-55	26	050S	050W	4301332264	13642	Indian	OW	P	
UTE TRIBAL 6-36-55	36	050S	050W	4301332265	13600	Indian	OW	P	
UTE TRIBAL 9-24-55	24	050S	050W	4301332268	13620	Indian	OW	P	
UTE TRIBAL 11-23-55	23	050S	050W	4301332269	13572	Indian	OW	P	
UTE TRIBAL 15-25-55	25	050S	050W	4301332271	13566	Indian	OW	P	
UTE TRIBAL 16-14-55	14	050S	050W	4301332272	13567	Indian	OW	P	
UTE TRIBAL 15-27-55	27	050S	050W	4301332339	14020	Indian	OW	P	
UTE TRIBAL 5-15-55	15	050S	050W	4301332344	13606	Indian	OW	P	
UTE TRIBAL 7-20-55	20	050S	050W	4301332346	13607	Indian	OW	P	
MOON TRIBAL 12-23-54	23	050S	040W	4301332347	14008	Indian	OW	P	
UTE TRIBAL 14-28-55	28	050S	050W	4301332348	13580	Indian	OW	P	
UTE TRIBAL 16-29-55	29	050S	050W	4301332349	13581	Indian	OW	P	
UTE TRIBAL 2-32-55	32	050S	050W	4301332350	13695	Indian	OW	P	
UTE TRIBAL 16-35-55	35	050S	050W	4301332352	14267	Indian	OW	P	
UTE TRIBAL 10-35-55	35	050S	050W	4301332353	13645	Indian	OW	P	
UTE TRIBAL 12-36-55	36	050S	050W	4301332354	13643	Indian	OW	P	
UTE TRIBAL 14-36-55	36	050S	050W	4301332355	14262	Indian	OW	P	
UTE TRIBAL 16-36-55	36	050S	050W	4301332356	14122	Indian	OW	P	
UTE TRIBAL 4-33-55	33	050S	050W	4301332357	13685	Indian	OW	P	
UTE TRIBAL 15-17-55	17	050S	050W	4301332358	13698	Indian	OW	P	
UTE TRIBAL 12-14-54	14	050S	040W	4301332369	13647	Indian	OW	P	
UTE TRIBAL 3-20-54	20	050S	040W	4301332377	13955	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 4-21-54	21	050S	040W	4301332378	13907	Indian	OW	P	
UTE TRIBAL 9-20-54	20	050S	040W	4301332379	13906	Indian	OW	P	
UTE TRIBAL 5-30-54	30	050S	040W	4301332380	13905	Indian	OW	P	
UTE TRIBAL 16-21-54	21	050S	040W	4301332381	13912	Indian	OW	P	BERRY PILOT EOR 246-02
UTE TRIBAL 15-30-54	30	050S	040W	4301332382	13944	Indian	OW	P	
UTE TRIBAL 9-30-54	30	050S	040W	4301332383	14050	Indian	OW	P	
UTE TRIBAL 14-21-54	21	050S	040W	4301332384	13946	Indian	OW	P	
UTE TRIBAL 12-21-54	21	050S	040W	4301332385	13928	Indian	OW	P	
UTE TRIBAL 15-20-54	20	050S	040W	4301332386	13911	Indian	OW	P	
UTE TRIBAL 13-28-54	28	050S	040W	4301332387	13908	Indian	OW	P	
UTE TRIBAL 9-28-54	28	050S	040W	4301332388	13910	Indian	OW	P	
UTE TRIBAL 15-28-54	28	050S	040W	4301332389	13909	Indian	OW	P	
UTE TRIBAL 9-25-55	25	050S	050W	4301332390	13715	Indian	OW	P	
MOON TRIBAL 6-27-54	27	050S	040W	4301332407	13969	Indian	OW	P	
MOON TRIBAL 14-27-54	27	050S	040W	4301332408	13998	Indian	OW	P	
UTE TRIBAL 3-32-54	32	050S	040W	4301332410	13949	Indian	OW	P	
UTE TRIBAL 7-32-54	32	050S	040W	4301332411	13936	Indian	OW	P	
UTE TRIBAL 7-33-54	33	050S	040W	4301332413	13945	Indian	OW	P	
UTE TRIBAL 11-20-55	20	050S	050W	4301332415	14269	Indian	OW	P	
UTE TRIBAL 1-27-55	27	050S	050W	4301332416	13947	Indian	OW	P	
UTE TRIBAL 3-27-55	27	050S	050W	4301332417	14022	Indian	OW	P	
UTE TRIBAL 7-27-55	27	050S	050W	4301332418	13948	Indian	OW	P	
UTE TRIBAL 10-28-55	28	050S	050W	4301332419	14580	Indian	OW	P	
UTE TRIBAL 6-32-55	32	050S	050W	4301332420	14895	Indian	OW	P	
UTE TRIBAL 8-32-55	32	050S	050W	4301332421	14896	Indian	OW	P	
UTE TRIBAL 2-36-55	36	050S	050W	4301332422	13937	Indian	OW	P	
UTE TRIBAL 8-36-55	36	050S	050W	4301332423	14021	Indian	OW	P	
UTE TRIBAL 13-16-54	16	050S	040W	4301332511	13981	Indian	OW	P	
UTE TRIBAL 13-23-55	23	050S	050W	4301332513	13975	Indian	OW	P	
UTE TRIBAL 7-23-55	23	050S	050W	4301332514	13976	Indian	OW	P	
UTE TRIBAL 5-33-54	33	050S	040W	4301332521	14060	Indian	OW	P	
UTE TRIBAL 11-33-54	33	050S	040W	4301332522	14061	Indian	OW	P	
UTE TRIBAL 14-32-54	32	050S	040W	4301332523	14062	Indian	OW	P	
UTE TRIBAL 1-23-55	23	050S	050W	4301332524	14044	Indian	OW	P	
UTE TRIBAL 5-29-54	29	050S	040W	4301332525	14045	Indian	OW	P	
UTE TRIBAL 1-31-54	31	050S	040W	4301332526	14116	Indian	OW	P	
UTE TRIBAL 3-31-54	31	050S	040W	4301332527	14109	Indian	OW	P	
UTE TRIBAL 7-31-54	31	050S	040W	4301332528	14160	Indian	OW	P	
UTE TRIBAL 9-31-54	31	050S	040W	4301332529	14177	Indian	OW	P	
UTE TRIBAL 11-31-54	31	050S	040W	4301332530	14163	Indian	OW	P	
UTE TRIBAL 3-23-55	23	050S	050W	4301332536	14077	Indian	OW	P	
UTE TRIBAL 5-23-55	23	050S	050W	4301332537	14108	Indian	OW	P	
UTE TRIBAL 9-32-54	32	050S	040W	4301332538	14199	Indian	OW	P	

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UTE TRIBAL 5-32-54	32	050S	040W	4301332539	14112	Indian	OW	P	
MOON TRIBAL 10-27-54	27	050S	040W	4301332540	14195	Indian	OW	P	
MOON TRIBAL 12-27-54	27	050S	040W	4301332541	14161	Indian	OW	P	
MOON TRIBAL 8-27-54	27	050S	040W	4301332543	14139	Indian	OW	P	
UTE TRIBAL 9-33-54	33	050S	040W	4301332549	14162	Indian	OW	P	
WILLIAMSON TRIBAL 3-34-54	34	050S	040W	4301332550	14222	Indian	OW	P	
WILLIAMSON TRIBAL 5-34-54	34	050S	040W	4301332551	14235	Indian	OW	P	
FEDERAL 6-2-65	2	060S	050W	4301332557	14655	Federal	OW	P	
UTE TRIBAL 15-29-54	29	050S	040W	4301332561	14316	Indian	OW	P	
UTE TRIBAL 7-29-54	29	050S	040W	4301332562	14354	Indian	OW	P	
UTE TRIBAL 11-29-54	29	050S	040W	4301332563	14337	Indian	OW	P	
UTE TRIBAL 13-29-54	29	050S	040W	4301332564	14315	Indian	OW	P	
UTE TRIBAL 4-29-54	29	050S	040W	4301332565	14367	Indian	OW	P	
UTE TRIBAL 9-29-54	29	050S	040W	4301332566	14369	Indian	OW	P	
UTE TRIBAL 1-35-54	35	050S	040W	4301332567	14266	Indian	OW	P	
UTE TRIBAL 11-13-54	13	050S	040W	4301332568	14281	Indian	OW	P	
UTE TRIBAL 6-24-54	24	050S	040W	4301332570	14299	Indian	OW	P	
UTE TRIBAL 13-18-54	18	050S	040W	4301332571	14388	Indian	OW	P	
UTE TRIBAL 12-29-54	29	050S	040W	4301332572	14336	Indian	OW	P	
UTE TRIBAL 4-24-54	24	050S	040W	4301332573	14247	Indian	OW	P	
UTE TRIBAL 6-14-54	14	050S	040W	4301332586	15270	Indian	OW	P	
UTE TRIBAL 10-15-54	15	050S	040W	4301332587	14194	Indian	OW	P	
UTE TRIBAL 16-15-54	15	050S	040W	4301332588	14311	Indian	OW	P	
UTE TRIBAL 11-16-54	16	050S	040W	4301332589	14178	Indian	OW	P	
UTE TRIBAL 8-22-54	22	050S	040W	4301332590	14219	Indian	OW	P	
UTE TRIBAL 2-22-54	22	050S	040W	4301332591	14328	Indian	OW	P	
UTE TRIBAL 10-22-54	22	050S	040W	4301332592	14218	Indian	OW	P	
UTE TRIBAL 14-22-54	22	050S	040W	4301332593	14220	Indian	OW	P	
UTE TRIBAL 13-13-55	13	050S	050W	4301332599	15134	Indian	OW	P	
UTE TRIBAL 13-14-55	14	050S	050W	4301332600	14236	Indian	OW	P	
UTE TRIBAL 13-15-55	15	050S	050W	4301332602	14263	Indian	OW	P	
UTE TRIBAL 10-21-55	21	050S	050W	4301332603	14385	Indian	OW	P	
UTE TRIBAL 2-22-55	22	050S	050W	4301332604	14268	Indian	OW	P	
UTE TRIBAL 3-22-55	22	050S	050W	4301332605	14298	Indian	OW	P	
UTE TRIBAL 9-22-55	22	050S	050W	4301332606	14330	Indian	OW	P	
UTE TRIBAL 11-22-55	22	050S	050W	4301332607	14329	Indian	OW	P	
UTE TRIBAL 5-27-55	27	050S	050W	4301332614	14881	Indian	OW	P	
UTE TRIBAL 11-27-55	27	050S	050W	4301332615	14882	Indian	OW	P	
UTE TRIBAL 12-22-55	22	050S	050W	4301332616	14370	Indian	OW	P	
UTE TRIBAL 15-22-55	22	050S	050W	4301332617	14921	Indian	OW	P	
UTE TRIBAL 8-25-55	25	050S	050W	4301332620	14365	Indian	OW	P	
UTE TRIBAL 4-20-54	20	050S	040W	4301332621	14518	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 6-20-54	20	050S	040W	4301332622	14382	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 5-22-54	22	050S	040W	4301332624	14547	Indian	OW	P	
UTE TRIBAL 3-30-54	30	050S	040W	4301332625	14364	Indian	OW	P	
UTE TRIBAL 3-10-54	10	050S	040W	4301332663	14414	Indian	OW	P	
UTE TRIBAL 11-5-54	5	050S	040W	4301332664	14415	Indian	OW	P	
UTE TRIBAL 15-32-54	32	050S	040W	4301332666	14460	Indian	OW	P	
UTE TRIBAL 8-31-55	31	050S	050W	4301332673	14407	Indian	OW	P	
UTE TRIBAL 3-35-54	35	050S	040W	4301332675	14656	Indian	OW	P	
UTE TRIBAL 2-30-55	30	050S	050W	4301332680	14427	Indian	OW	P	
UTE TRIBAL 9-17-54	17	050S	040W	4301332687	15309	Indian	OW	P	
UTE TRIBAL 13-31-54	31	050S	040W	4301332688	14517	Indian	OW	P	
UTE TRIBAL 14-19-54	19	050S	040W	4301332690	14546	Indian	OW	P	
UTE TRIBAL 16-19-54	19	050S	040W	4301332691	14491	Indian	OW	P	
UTE TRIBAL 13-32-54	32	050S	040W	4301332692	14490	Indian	OW	P	
UTE TRIBAL 11-14-55	14	050S	050W	4301332693	15136	Indian	OW	P	
UTE TRIBAL 8-28-55	28	050S	050W	4301332694	14574	Indian	OW	P	
FEDERAL 6-1-65	1	060S	050W	4301332699	15776	Federal	OW	P	
UTE TRIBAL 9-15-55	15	050S	050W	4301332701	14573	Indian	OW	P	
UTE TRIBAL 14-20-54	20	050S	040W	4301332702	14459	Indian	OW	P	
#1 DLB 12-15-56	15	050S	060W	4301332710	14943	Fee	GW	P	
UTE TRIBAL 12-19-54	19	050S	040W	4301332716	14627	Indian	OW	P	
UTE TRIBAL 10-19-54	19	050S	040W	4301332717	14628	Indian	OW	P	
UTE TRIBAL 16-30-54	30	050S	040W	4301332718	14604	Indian	OW	P	
UTE TRIBAL 11-12-55	12	050S	050W	4301332721	14605	Indian	OW	P	

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NIelsen MARSING 13-14-56	14	050S	060W	4301332737	15060	Fee	OW	P	
TAYLOR HERRICK 10-22-56	22	050S	060W	4301332738	15058	Fee	OW	P	
UTE TRIBAL 16-20-54	20	050S	040W	4301332739	14671	Indian	OW	P	
UTE TRIBAL 10-20-54	20	050S	040W	4301332740	14691	Indian	OW	P	
UTE TRIBAL 4-28-54	28	050S	040W	4301332741	14672	Indian	OW	P	
UTE TRIBAL 13-33-54	33	050S	040W	4301332742	14736	Indian	OW	P	
UTE TRIBAL 15-31-54	31	050S	040W	4301332743	14690	Indian	OW	P	
UTE TRIBAL 8-30-54	30	050S	040W	4301332746	15583	Indian	OW	P	
UTE TRIBAL 10-25-55	25	050S	050W	4301332749	14758	Indian	OW	P	
UTE TRIBAL 14-25-55	25	050S	050W	4301332750	14798	Indian	OW	P	
UTE TRIBAL 3-36-55	36	050S	050W	4301332751	14842	Indian	OW	P	
UTE TRIBAL 16-16-55	16	050S	050W	4301332757	14865	Indian	OW	P	
UTE TRIBAL 3-21-55	21	050S	050W	4301332758	15112	Indian	OW	P	
UTE TRIBAL 16-25-55	25	050S	050W	4301332759	14821	Indian	OW	P	
UTE TRIBAL 1-36-55	36	050S	050W	4301332760	14822	Indian	OW	P	
UTE TRIBAL 7-22-54	22	050S	040W	4301332761	15661	Indian	OW	P	
UTE TRIBAL 2-31-54	31	050S	040W	4301332762	14845	Indian	OW	P	
UTE TRIBAL 2-28-54	28	050S	040W	4301332763	14723	Indian	OW	P	
UTE TRIBAL 10-28-54	28	050S	040W	4301332764	14722	Indian	OW	P	
UTE TRIBAL 12-28-54	28	050S	040W	4301332765	14701	Indian	OW	P	
UTE TRIBAL 8-28-54	28	050S	040W	4301332766	14777	Indian	OW	P	
UTE TRIBAL 4-31-54	31	050S	040W	4301332767	14494	Indian	OW	P	
UTE TRIBAL 15-33-54	33	050S	040W	4301332768	15210	Indian	OW	P	
UTE TRIBAL 12-25-55	25	050S	050W	4301332769	14799	Indian	OW	P	
UTE TRIBAL 16-24-54	24	050S	040W	4301332775	14762	Indian	OW	P	
UTE TRIBAL 14-25-54	25	050S	040W	4301332776	14753	Indian	OW	P	
UTE TRIBAL 8-25-54	25	050S	040W	4301332780	15280	Indian	OW	P	
UTE TRIBAL 9-35-54	35	050S	040W	4301332781	15535	Indian	OW	P	
MYRIN TRIBAL 14-19-55	19	050S	050W	4301332782	15184	Indian	OW	P	
UTE TRIBAL 6-30-55	30	050S	050W	4301332783	15163	Indian	OW	P	
MOON TRIBAL 4-23-54	23	050S	040W	4301332800	14985	Indian	OW	P	
MOON TRIBAL 5-27-54	27	050S	040W	4301332802	14984	Indian	OW	P	
UTE TRIBAL 2-32-54	32	050S	040W	4301332803	15151	Indian	OW	P	
UTE TRIBAL 15-35-54	35	050S	040W	4301332804	15185	Indian	OW	P	
UTE TRIBAL 5-35-54	35	050S	040W	4301332805	15485	Indian	OW	P	
UTE TRIBAL 13-35-54	35	050S	040W	4301332806	15292	Indian	OW	P	
UTE TRIBAL 11-35-54	35	050S	040W	4301332807	15317	Indian	OW	P	
UTE TRIBAL 8-19-54	19	050S	040W	4301332840	14946	Indian	OW	P	BRUNDAGE CANYON
UTE TRIBAL 13-20-55	20	050S	050W	4301332841	15097	Indian	OW	P	
UTE TRIBAL 16-22-54	22	050S	040W	4301332842	15015	Indian	OW	P	
MOON TRIBAL 6-23-54	23	050S	040W	4301332843	15113	Indian	OW	P	
UTE TRIBAL 11-26-54	26	050S	040W	4301332844	15233	Indian	OW	P	
MOON TRIBAL 11-27-54	27	050S	040W	4301332845	15135	Indian	OW	P	
MOON TRIBAL 15-27-54	27	050S	040W	4301332846	15115	Indian	OW	P	
UTE TRIBAL 10-31-54	31	050S	040W	4301332847	14956	Indian	OW	P	
ST TRIBAL 6-15-54	15	050S	040W	4301332848	16656	Indian	OW	P	
ST TRIBAL 2-15-54	15	050S	040W	4301332849	16959	Indian	OW	P	
ST TRIBAL 4-15-54	15	050S	040W	4301332850	17478	Indian	OW	P	
ST TRIBAL 8-15-54	15	050S	040W	4301332851	16279	Indian	OW	P	
UTE TRIBAL 11-25-54	25	050S	040W	4301332856	15430	Indian	OW	P	
UTE TRIBAL 3-30-55	30	050S	050W	4301332862	15340	Indian	OW	P	
UTE TRIBAL 7-19-55	19	050S	050W	4301332863	15279	Indian	OW	P	
UTE TRIBAL 8-19-55	19	050S	050W	4301332864	15241	Indian	OW	P	
UTE TRIBAL 6-19-54	19	050S	040W	4301332865	14947	Indian	OW	P	
UTE TRIBAL 12-20-54	20	050S	040W	4301332866	14924	Indian	OW	P	
UTE TRIBAL 3-21-54	21	050S	040W	4301332867	15554	Indian	OW	P	
UTE TRIBAL 2-26-54	26	050S	040W	4301332868	15231	Indian	OW	P	
UTE TRIBAL 8-31-54	31	050S	040W	4301332869	14970	Indian	OW	P	
UTE TRIBAL 8-32-54	32	050S	040W	4301332870	15152	Indian	OW	P	
UTE TRIBAL 4-33-54	33	050S	040W	4301332871	15040	Indian	OW	P	
UTE TRIBAL 6-33-54	33	050S	040W	4301332872	15059	Indian	OW	P	
UTE TRIBAL 9-22-54	22	050S	040W	4301332889	15607	Indian	OW	P	
UTE TRIBAL 5-26-54	26	050S	040W	4301332890	15268	Indian	OW	P	
UTE TRIBAL 13-26-54	26	050S	040W	4301332891	15287	Indian	OW	P	
UTE TRIBAL 6-28D-54	28	050S	040W	4301332892	15232	Indian	OW	P	
UTE TRIBAL 2-30D-54	30	050S	040W	4301332894	15298	Indian	OW	P	

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UTE TRIBAL 4-32-54	32	050S	040W	4301332896	15555	Indian	OW	P	
UTE TRIBAL 6-32D-54	32	050S	040W	4301332897	15312	Indian	OW	P	
UTE TRIBAL 2-33D-54	33	050S	040W	4301332898	15271	Indian	OW	P	
UTE TRIBAL 12-32-54	32	050S	040W	4301332925	15503	Indian	OW	P	
UTE TRIBAL 16-32D-54	32	050S	040W	4301332926	16971	Indian	OW	P	
MOON TRIBAL 16-23-54	23	050S	040W	4301332927	15219	Indian	OW	P	
UTE TRIBAL 4-25-55	25	050S	050W	4301332928	15421	Indian	OW	P	
UTE TRIBAL 7-36-55	36	050S	050W	4301332929	15341	Indian	OW	P	
MOON TRIBAL 10-2-54	2	050S	040W	4301332931	15429	Indian	OW	P	
UTE TRIBAL 10-24-54	24	050S	040W	4301332932	15364	Indian	OW	P	
MYRIN TRIBAL 16-19-55	19	050S	050W	4301332934	15339	Indian	OW	P	
UTE TRIBAL 2-31-55	31	050S	050W	4301332935	15428	Indian	OW	P	
UTE TRIBAL 10-31-55	31	050S	050W	4301332936	15354	Indian	OW	P	
MOON TRIBAL 1-27-54	27	050S	040W	4301332937	15308	Indian	OW	P	
MOON TRIBAL 5-23-54	23	050S	040W	4301332938	15584	Indian	OW	P	
ST TRIBAL 7-18-54	18	050S	040W	4301332952	15724	Indian	OW	P	
ST TRIBAL 5-18-54	18	050S	040W	4301332953	15781	Indian	OW	P	
UTE TRIBAL 15-15-54	15	050S	040W	4301332971	15310	Indian	OW	P	
UTE TRIBAL 4-19-54	19	050S	040W	4301332972	15382	Indian	OW	P	
UTE TRIBAL 8-20-54	20	050S	040W	4301332973	15245	Indian	OW	P	
UTE TRIBAL 2-20-54	20	050S	040W	4301332974	15269	Indian	OW	P	
UTE TRIBAL 7-15-55	15	050S	050W	4301332976	15311	Indian	OW	P	
UTE TRIBAL 10-15-55	15	050S	050W	4301332977	15380	Indian	OW	P	
UTE TRIBAL 1-15-55	15	050S	050W	4301332978	15299	Indian	OW	P	
UTE TRIBAL 14-15-55	15	050S	050W	4301332979	15369	Indian	OW	P	
UTE TRIBAL 11-15-55	15	050S	050W	4301332980	15342	Indian	OW	P	
UTE TRIBAL 14-18-55	18	050S	050W	4301332984	15671	Indian	OW	P	
UTE TRIBAL 14-24-56	24	050S	060W	4301332988	15740	Indian	OW	P	
UTE TRIBAL 7-24-56	24	050S	060W	4301332989	15782	Indian	OW	P	
UTE TRIBAL 11-25-56	25	050S	060W	4301332990	15627	Indian	OW	P	
UTE TRIBAL 7-25-56	25	050S	060W	4301332991	15617	Indian	OW	P	
UTE TRIBAL 5-25-56	25	050S	060W	4301332992	15648	Indian	OW	P	
UTE TRIBAL 3-25-56	25	050S	060W	4301332993	15561	Indian	OW	P	
UTE TRIBAL 13-15D-54	15	050S	040W	4301333039	15368	Indian	OW	P	
UTE TRIBAL 16-28D-54	28	050S	040W	4301333041	15377	Indian	OW	P	
UTE TRIBAL 14-31D-54	31	050S	040W	4301333042	15419	Indian	OW	P	
UTE TRIBAL 4-22-55	22	050S	050W	4301333044	15381	Indian	OW	P	
UTE TRIBAL 2-23-55	23	050S	050W	4301333045	15416	Indian	OW	P	
UTE TRIBAL 16-23-55	23	050S	050W	4301333046	15211	Indian	OW	P	
UTE TRIBAL 9-35-55	35	050S	050W	4301333047	15378	Indian	OW	P	
UTE TRIBAL 7-35-55	35	050S	050W	4301333048	15367	Indian	OW	P	
UTE TRIBAL 15-36-55	36	050S	050W	4301333049	15379	Indian	OW	P	
UTE TRIBAL 10-12-55	12	050S	050W	4301333055	15618	Indian	OW	P	
UTE TRIBAL 5-13-54	13	050S	040W	4301333075	15873	Indian	OW	P	
UTE TRIBAL 16-29-54	29	050S	040W	4301333076	17074	Indian	OW	P	
UTE TRIBAL 12-18-54	18	050S	040W	4301333077	15575	Indian	OW	P	
UTE TRIBAL 8-33-54	33	050S	040W	4301333089	15398	Indian	OW	P	
UTE TRIBAL 12-33-54	33	050S	040W	4301333090	15417	Indian	OW	P	
UTE TRIBAL 16-33-54	33	050S	040W	4301333091	15397	Indian	OW	P	
UTE TRIBAL 10-33-54	33	050S	040W	4301333092	15418	Indian	OW	P	
UTE TRIBAL 14-33-54	33	050S	040W	4301333093	15399	Indian	OW	P	
UTE TRIBAL 2-14-54	14	050S	040W	4301333111	16832	Indian	OW	P	
UTE TRIBAL 14-14-54	14	050S	040W	4301333112	15440	Indian	OW	P	
UTE TRIBAL 13-21-54	21	050S	040W	4301333113	15471	Indian	OW	P	
UTE TRIBAL 11-21-54	21	050S	040W	4301333115	15470	Indian	OW	P	
UTE TRIBAL 11-22-54	22	050S	040W	4301333116	15662	Indian	OW	P	
UTE TRIBAL 2-21-55	21	050S	050W	4301333117	15582	Indian	OW	P	
UTE TRIBAL 4-28-55	28	050S	050W	4301333118	15506	Indian	OW	P	
UTE TRIBAL 8-29-55	29	050S	050W	4301333119	15507	Indian	OW	P	
UTE TRIBAL 6-29-55	29	050S	050W	4301333120	15504	Indian	OW	P	
TAYLOR FEE 13-22-56	22	050S	060W	4301333121	15525	Fee	OW	P	
WILCOX ELIASON 7-15-56	15	050S	060W	4301333122	15526	Fee	OW	P	
UTE TRIBAL 14-16-54	16	050S	040W	4301333123	15639	Indian	OW	P	
UTE TRIBAL 1-16-54	16	050S	040W	4301333128	15420	Indian	OW	P	
UTE TRIBAL 7-16-54	16	050S	040W	4301333130	15455	Indian	OW	P	
UTE TRIBAL 12-16-54	16	050S	040W	4301333131	15456	Indian	OW	P	

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UTE TRIBAL 16-17-54	17	050S	040W	4301333132	15524	Indian	OW	P	
UTE TRIBAL 10-17-54	17	050S	040W	4301333133	15581	Indian	OW	P	
UTE TRIBAL 12-24D-55	24	050S	050W	4301333134	15567	Indian	OW	P	
WILCOX FEE 1-20-56	20	050S	060W	4301333150	15745	Fee	OW	P	
WILCOX FEE 15-16-56	16	050S	060W	4301333151	15527	Fee	OW	P	
NIELSEN FEE 13-11-56	11	050S	060W	4301333152	15600	Fee	OW	P	
UTE TRIBAL 2-29-54	29	050S	040W	4301333153	15919	Indian	OW	P	
UTE TRIBAL 14-29-54	29	050S	040W	4301333154	15831	Indian	OW	P	
UTE TRIBAL 10-29-54	29	050S	040W	4301333155	15847	Indian	OW	P	
UTE TRIBAL 10-24D-55	24	050S	050W	4301333156	15556	Indian	OW	P	
UTE TRIBAL 10-29D-55	29	050S	050W	4301333157	15505	Indian	OW	P	
UTE TRIBAL 6-29-54	29	050S	040W	4301333172	15846	Indian	OW	P	
UTE TRIBAL 12Q-25-55	25	050S	050W	4301333184	15744	Indian	OW	P	
UTE TRIBAL 3G-31-54	31	050S	040W	4301333185	15746	Indian	OW	P	
UTE TRIBAL 11-36-55	36	050S	050W	4301333186	15865	Indian	OW	P	
UTE TRIBAL 6-23D-55	23	050S	050W	4301333187	15996	Indian	OW	P	
UTE TRIBAL 8-14-54	14	050S	040W	4301333204	15656	Indian	OW	P	
UTE TRIBAL 10-14-54	14	050S	040W	4301333205	15680	Indian	OW	P	
UTE TRIBAL 11-15-54	15	050S	040W	4301333206	15643	Indian	OW	P	
UTE TRIBAL 9-16-54	16	050S	040W	4301333207	15660	Indian	OW	P	
UTE TRIBAL 3-22-54	22	050S	040W	4301333208	15640	Indian	OW	P	
UTE TRIBAL 15-13D-55	13	050S	050W	4301333212	15642	Indian	OW	P	
UTE TRIBAL 6-22D-55	22	050S	050W	4301333213	16831	Indian	OW	P	
UTE TRIBAL 11-36D-55	36	050S	050W	4301333214	15702	Indian	OW	P	
UTE TRIBAL 1-22D-54	22	050S	040W	4301333215	15641	Indian	OW	P	
BERRY TRIBAL 1-23-54	23	050S	040W	4301333216	15931	Indian	OW	P	
BERRY TRIBAL 15-23-54	23	050S	040W	4301333217	15932	Indian	OW	P	
UTE TRIBAL 9-36D-55	36	050S	050W	4301333239	15933	Indian	OW	P	
UTE TRIBAL 12-32-55	32	050S	050W	4301333266	15681	Indian	OW	P	
UTE TRIBAL 16-22D-55	22	050S	050W	4301333267	15703	Indian	OW	P	
UTE TRIBAL 11-13-55	13	050S	050W	4301333268	15692	Indian	OW	P	
UTE TRIBAL 7-14-55	14	050S	050W	4301333269	15693	Indian	OW	P	
UTE TRIBAL 4-14D-54	14	050S	040W	4301333270	15679	Indian	OW	P	
UTE TRIBAL 9S-19-54	19	050S	040W	4301333276	16153	Indian	OW	P	
UTE TRIBAL 14Q-28-54	28	050S	040W	4301333277	15818	Indian	OW	P	
UTE TRIBAL 14-28D-54	28	050S	040W	4301333278	15817	Indian	OW	P	
UTE TRIBAL 1-14D-55	14	050S	050W	4301333279	18408	Indian	OW	P	
UTE TRIBAL 10-18-54	18	050S	040W	4301333300	15747	Indian	OW	P	
UTE TRIBAL 5-21-54	21	050S	040W	4301333324	15748	Indian	OW	P	
UTE TRIBAL 6-31D-54	31	050S	040W	4301333325	16185	Indian	OW	P	
UTE TRIBAL 16-31D-54	31	050S	040W	4301333326	15800	Indian	OW	P	
UTE TRIBAL 16-13D-55	13	050S	050W	4301333327	15891	Indian	OW	P	
UTE TRIBAL 9-13D-55	13	050S	050W	4301333328	15892	Indian	OW	P	
UTE TRIBAL 15-21-55	21	050S	050W	4301333357	15791	Indian	OW	P	
UTE TRIBAL 10-23D-55	23	050S	050W	4301333358	15799	Indian	OW	P	
UTE TRIBAL 9-26D-55	26	050S	050W	4301333359	15853	Indian	OW	P	
UTE TRIBAL 10-26D-55	26	050S	050W	4301333360	15852	Indian	OW	P	
UTE TRIBAL 14-26D-55	26	050S	050W	4301333361	15938	Indian	OW	P	
UTE TRIBAL 15-26D-55	26	050S	050W	4301333362	15869	Indian	OW	P	
UTE TRIBAL 3-32D-55	32	050S	050W	4301333363	15936	Indian	OW	P	
UTE TRIBAL 13-14-54	14	050S	040W	4301333364	15790	Indian	OW	P	
MOON TRIBAL 7-27D-54	27	050S	040W	4301333365	15935	Indian	OW	P	
14-11-56 DLB	11	050S	060W	4301333378	15801	Fee	OW	P	
UTE TRIBAL 4-32-55	32	050S	050W	4301333379	15819	Indian	OW	P	
UTE TRIBAL 13H-16-55	16	050S	050W	4301333380	18357	Indian	OW	P	
BERRY TRIBAL 7-23-54	23	050S	040W	4301333381	15934	Indian	OW	P	
BERRY TRIBAL 9-34-54	34	050S	040W	4301333382	16024	Indian	OW	P	
BERRY TRIBAL 7-34-54	34	050S	040W	4301333383	16102	Indian	OW	P	
BERRY TRIBAL 4-34-54	34	050S	040W	4301333384	16588	Indian	OW	P	
FEDERAL 2-2-65	2	060S	050W	4301333385	16150	Federal	OW	P	
FEDERAL 10-3-65	3	060S	050W	4301333386	16297	Federal	OW	P	
FEDERAL 5-4-65	4	060S	050W	4301333387	17599	Federal	OW	P	
UTE TRIBAL 1A-29-54	29	050S	040W	4301333393	17075	Indian	OW	P	
BERRY TRIBAL 15-34-54	34	050S	040W	4301333411	16037	Indian	OW	P	
BERRY TRIBAL 8-23D-54	23	050S	040W	4301333417	16101	Indian	OW	P	
UTE TRIBAL 12-29D-55	29	050S	050W	4301333418	17307	Indian	OW	P	

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UTE TRIBAL 8-24-55	24	050S	050W	4301333420	15997	Indian	OW	P
UTE TRIBAL 5-25D-55	25	050S	050W	4301333421	16589	Indian	OW	P
BERRY TRIBAL 10-34D-54	34	050S	040W	4301333422	16038	Indian	OW	P
1-15-56 DLB	15	050S	060W	4301333447	15854	Fee	OW	P
FEDERAL 5-3-64	3	060S	040W	4301333448	16098	Federal	OW	P
FEDERAL 8-1-64	1	060S	040W	4301333449	16152	Federal	OW	P
FEDERAL 5-4-64	4	060S	040W	4301333450	17851	Federal	OW	P
FEDERAL 11-10-65	10	060S	050W	4301333451	16281	Federal	OW	P
BERRY TRIBAL 16-34D-54	34	050S	040W	4301333464	16280	Indian	OW	P
BERRY TRIBAL 9-23-54	23	050S	040W	4301333465	16590	Indian	OW	P
UTE TRIBAL 6-26D-55	26	050S	050W	4301333476	16657	Indian	OW	P
UTE TRIBAL 7-26D-55	26	050S	050W	4301333477	16658	Indian	OW	P
UTE TRIBAL 11-26D-55	26	050S	050W	4301333478	16659	Indian	OW	P
UTE TRIBAL 14Q-30-54	30	050S	040W	4301333479	16151	Indian	OW	P
FEDERAL 5-6-65	6	060S	050W	4301333489	17852	Federal	OW	P
FEDERAL 16-5-65	5	060S	050W	4301333490	16833	Federal	OW	P
FEDERAL 6-11-65	11	060S	050W	4301333491	16335	Federal	OW	P
LC TRIBAL 14-2-56	2	050S	060W	4301333492	18358	Indian	OW	P
UTE TRIBAL 1-31-55	31	050S	050W	4301333501	17104	Indian	OW	P
UTE TRIBAL 9-31-55	31	050S	050W	4301333508	17103	Indian	OW	P
BERRY TRIBAL 11-34D-54	34	050S	040W	4301333529	16099	Indian	OW	P
LC TRIBAL 2-16D-56	16	050S	060W	4301333538	17305	Indian	OW	P
LC TRIBAL 4-16-56	16	050S	060W	4301333539	16272	Indian	OW	P
LC TRIBAL 3-17-56	17	050S	060W	4301333541	16459	Indian	OW	P
FEDERAL 10-2-65	2	060S	050W	4301333542	16181	Federal	OW	P
UTE TRIBAL 4-20D-55	20	050S	050W	4301333549	18075	Indian	OW	P
UTE TRIBAL 8-23D-55	23	050S	050W	4301333552	16662	Indian	OW	P
LC TRIBAL 8-28-46	28	040S	060W	4301333576	16155	Indian	OW	P
LC TRIBAL 7-3-56	3	050S	060W	4301333577	16379	Indian	OW	P
LC TRIBAL 3-5-56	5	050S	060W	4301333580	17082	Indian	OW	P
FEDERAL 8-2D-64	2	060S	040W	4301333581	16100	Federal	OW	P
LC TRIBAL 13H-3-56	3	050S	060W	4301333591	18129	Indian	OW	P
LC FEE 6-12-57	12	050S	070W	4301333593	17083	Fee	OW	P
UTE TRIBAL 4-26D-54	26	050S	040W	4301333595	16591	Indian	OW	P
LC TRIBAL 8-4-56	4	050S	060W	4301333605	17046	Indian	OW	P
LC TRIBAL 12H-6-56	6	050S	060W	4301333606	18037	Indian	OW	P
LC TRIBAL 7-7D-56	7	050S	060W	4301333607	18038	Indian	OW	P
LC TRIBAL 1-9-56	9	050S	060W	4301333608	16380	Indian	OW	P
UTE TRIBAL 5-14-54	14	050S	040W	4301333619	16945	Indian	OW	P
UTE TRIBAL 10-26D-54	26	050S	040W	4301333620	16663	Indian	OW	P
UTE TRIBAL 7-26D-54	26	050S	040W	4301333621	16664	Indian	OW	P
UTE TRIBAL 13-36D-55	36	050S	050W	4301333624	17744	Indian	OW	P
UTE TRIBAL 6-26D-54	26	050S	040W	4301333625	16619	Indian	OW	P
UTE TRIBAL 1-22D-55	22	050S	050W	4301333626	16777	Indian	OW	P
UTE TRIBAL 4-23D-55	23	050S	050W	4301333627	16818	Indian	OW	P
UTE TRIBAL 2-27D-55	27	050S	050W	4301333628	16746	Indian	OW	P
UTE TRIBAL 12-28D-55	28	050S	050W	4301333645	17999	Indian	OW	P
UTE TRIBAL 13-28D-55	28	050S	050W	4301333646	18000	Indian	OW	P
UTE TRIBAL 14-26D-54	26	050S	040W	4301333673	16299	Indian	OW	P
UTE FEE 7-13D-55	13	050S	050W	4301333674	18089	Fee	OW	P
UTE TRIBAL 9-20D-55	20	050S	050W	4301333675	17309	Indian	OW	P
LC TRIBAL 11-17-56	17	050S	060W	4301333677	17600	Indian	OW	P
UTE TRIBAL 1-26D-54	26	050S	040W	4301333680	16638	Indian	OW	P
UTE TRIBAL 3-26D-54	26	050S	040W	4301333681	16665	Indian	OW	P
UTE TRIBAL 8-26D-54	26	050S	040W	4301333682	17031	Indian	OW	P
UTE TRIBAL 10-27D-55	27	050S	050W	4301333683	16666	Indian	OW	P
UTE TRIBAL 14-27D-55	27	050S	050W	4301333684	16667	Indian	OW	P
UTE TRIBAL 12-21D-55	21	050S	050W	4301333694	16296	Indian	OW	P
UTE TRIBAL 5-21D-55	21	050S	050W	4301333706	16298	Indian	OW	P
UTE TRIBAL 2-29D-55	29	050S	050W	4301333714	16854	Indian	OW	P
UTE TRIBAL 7-29D-55	29	050S	050W	4301333715	16853	Indian	OW	P
UTE TRIBAL 13-22D-55	22	050S	050W	4301333716	16668	Indian	OW	P
UTE TRIBAL 14-22D-55	22	050S	050W	4301333717	16669	Indian	OW	P
UTE FEE 2-13-55	13	050S	050W	4301333720	18659	Indian	OW	P
UTE TRIBAL 7-22D-55	22	050S	050W	4301333721	16670	Indian	OW	P
UTE TRIBAL 10-22D-55	22	050S	050W	4301333722	16671	Indian	OW	P

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UTE TRIBAL 3-29-55	29	050S	050W	4301333723	16857	Indian	OW	P	
BERRY TRIBAL 10-23D-54	23	050S	040W	4301333724	16592	Indian	OW	P	
BERRY TRIBAL 11-23D-54	23	050S	040W	4301333725	16672	Indian	OW	P	
UTE TRIBAL 4-24D-55	24	050S	050W	4301333726	16673	Indian	OW	P	
FEDERAL 6-6D-64	6	060S	040W	4301333745	17084	Federal	OW	P	
UTE TRIBAL 15-26D-54	26	050S	040W	4301333768	17450	Indian	OW	P	
UTE TRIBAL 1-14D-54	14	050S	040W	4301333769	17483	Indian	OW	P	
UTE TRIBAL 12-35D-55	35	050S	050W	4301333782	16856	Indian	OW	P	
UTE TRIBAL 11-35-55	35	050S	050W	4301333783	16855	Indian	OW	P	
UTE TRIBAL 1-28D-55	28	050S	050W	4301333784	16852	Indian	OW	P	
UTE TRIBAL 16-27D-55	27	050S	050W	4301333786	17800	Indian	OW	P	
UTE TRIBAL 9-28D-55	28	050S	050W	4301333787	16887	Indian	OW	P	
UTE TRIBAL 7-28D-55	28	050S	050W	4301333788	16886	Indian	OW	P	
UTE TRIBAL 11-32D-54	32	050S	040W	4301333793	17003	Indian	OW	P	
UTE TRIBAL 9-14D-54	14	050S	040W	4301333796	17482	Indian	OW	P	
UTE TRIBAL 4-27D-55	27	050S	050W	4301333797	16700	Indian	OW	P	
FOY TRIBAL 12H-33-55	33	050S	050W	4301333799	18232	Indian	OW	P	
UTE TRIBAL 9-32D-55	32	050S	050W	4301333800	18361	Indian	OW	P	
UTE TRIBAL 12-26D-54	26	050S	040W	4301333801	16639	Indian	OW	P	
UTE TRIBAL 8-26D-55	26	050S	050W	4301333859	17859	Indian	OW	P	
BERRY TRIBAL 2-34D-54	34	050S	040W	4301333867	17889	Indian	OW	P	
UTE TRIBAL 3-35D-55	35	050S	050W	4301333888	17421	Indian	OW	P	
UTE TRIBAL 10-32-54	32	050S	040W	4301333902	16819	Indian	OW	P	
UTE TRIBAL 12-31D-54	31	050S	040W	4301333907	17480	Indian	OW	P	
UTE TRIBAL 12-23D-55	23	050S	050W	4301333908	17814	Indian	OW	P	
UTE TRIBAL 14-20D-55	20	050S	050W	4301333909	18559	Indian	OW	P	
UTE TRIBAL 6-20D-55	20	050S	050W	4301333910	18481	Indian	OW	P	
UTE TRIBAL 12-20-55	20	050S	050W	4301333911	18520	Indian	OW	P	
UTE TRIBAL 14-24D-55	24	050S	050W	4301333912	16943	Indian	OW	P	
UTE TRIBAL 14-23D-55	23	050S	050W	4301333915	17457	Indian	OW	P	
ST TRIBAL 1-15D-54	15	050S	040W	4301333916	16889	Indian	OW	P	
ST TRIBAL 7-15D-54	15	050S	040W	4301333950	16972	Indian	OW	P	
ST TRIBAL 9-15D-54	15	050S	040W	4301333951	16973	Indian	OW	P	
UTE TRIBAL 15-35D-55	35	050S	050W	4301333954	17417	Indian	OW	P	
UTE TRIBAL 14-35D-55	35	050S	050W	4301333955	17416	Indian	OW	P	
UTE TRIBAL 16-26D-55	26	050S	050W	4301333965	17418	Indian	OW	P	
FEDERAL 1-2D-65	2	060S	050W	4301333966	16888	Federal	OW	P	
UTE TRIBAL 1-35D-55	35	050S	050W	4301333967	17420	Indian	OW	P	
UTE TRIBAL 10-36D-55	36	050S	050W	4301333968	17743	Indian	OW	P	
UTE TRIBAL 4-26D-55	26	050S	050W	4301333978	17455	Indian	OW	P	
UTE TRIBAL 2-26D-55	26	050S	050W	4301333979	17456	Indian	OW	P	
BERRY TRIBAL 14-23D-54	23	050S	040W	4301333989	17903	Indian	OW	P	
FEDERAL 3-2D-65	2	060S	050W	4301334001	16944	Federal	OW	P	
UTE TRIBAL 13-26D-55	26	050S	050W	4301334002	17481	Indian	OW	P	
FEDERAL 7-1D-65	1	060S	050W	4301334015	17775	Federal	OW	P	
FEDERAL 2-2D-64	2	060S	040W	4301334018	17086	Federal	OW	P	
FEDERAL 7-6D-64	6	060S	040W	4301334020	17085	Federal	OW	P	
UTE TRIBAL 6-35D-55	35	050S	050W	4301334028	17785	Indian	OW	P	
UTE TRIBAL 16-26-54	26	050S	040W	4301334042	17413	Indian	OW	P	
BERRY TRIBAL 13-23-54	23	050S	040W	4301334043	17100	Indian	OW	P	
UTE TRIBAL 11-28-55	28	050S	050W	4301334057	18001	Indian	OW	P	
UTE TRIBAL 8-27D-55	27	050S	050W	4301334058	17842	Indian	OW	P	
ST TRIBAL 3-15D-54	15	050S	040W	4301334059	17477	Indian	OW	P	
ST TRIBAL 5-15D-54	15	050S	040W	4301334060	17479	Indian	OW	P	
FEDERAL 7-11D-65	11	060S	050W	4301334061	17776	Federal	OW	P	
FEDERAL 7-3D-65	3	060S	050W	4301334065	17124	Federal	OW	P	
MOON TRIBAL 16-27D-54	27	050S	040W	4301334109	17414	Indian	OW	P	
UTE TRIBAL 15-22D-54	22	050S	040W	4301334116	17415	Indian	OW	P	
UTE TRIBAL 13-35D-55	35	050S	050W	4301334117	18442	Indian	OW	P	
UTE TRIBAL 12-26D-55	26	050S	050W	4301334118	17786	Indian	OW	P	
LC TRIBAL 13-16D-56	16	050S	060W	4301334282	17601	Indian	OW	P	
FEDERAL 11-6D-64	6	060S	040W	4301334284	17615	Federal	OW	P	
FEDERAL 14-6D-64	6	060S	040W	4301334285	17616	Federal	OW	P	
FEDERAL 2-6D-64	6	060S	040W	4301334286	17663	Federal	OW	P	
FEDERAL 3-5D-64	5	060S	040W	4301334287	17617	Federal	OW	P	
FEDERAL 6-5D-64	5	060S	040W	4301334288	17649	Federal	OW	P	

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SFW TRIBAL 10-10D-54	10	050S	040W	4301334295	17564	Indian	OW	P	
SFW TRIBAL 9-10D-54	10	050S	040W	4301334296	17565	Indian	OW	P	
STATE TRIBAL 16-10-54	10	050S	040W	4301350245	17553	Indian	OW	P	
UTE TRIBAL 6-14D-55	14	050S	050W	4301350246	17602	Indian	OW	P	
SFW FEE 15-10-54	10	050S	040W	4301350247	17566	Fee	OW	P	
FEDERAL 5-5D-64	5	060S	040W	4301350259	17648	Federal	OW	P	
LC TRIBAL 6-22D-56	22	050S	060W	4301350260	17567	Indian	OW	P	
FEDERAL 12-6D-64	6	060S	040W	4301350261	17618	Federal	OW	P	
LC TRIBAL 4-27D-56	27	050S	060W	4301350262	17568	Indian	OW	P	
FEDERAL 4-5D-64	5	060S	040W	4301350263	17661	Federal	OW	P	
FEDERAL 1-6-64	6	060S	040W	4301350266	17662	Federal	OW	P	
FEDERAL 4-6D-64	6	060S	040W	4301350267	17651	Federal	OW	P	
FEDERAL 3-6D-64	6	060S	040W	4301350268	17650	Federal	OW	P	
FEDERAL 5-6D-64	6	060S	040W	4301350269	17652	Federal	OW	P	
FEDERAL 8-6D-64	6	060S	040W	4301350325	17664	Federal	OW	P	
FEDERAL 10-1D-65	1	060S	050W	4301350326	18027	Federal	OW	P	
FEDERAL 11-1D-65	1	060S	050W	4301350327	18039	Federal	OW	P	
FEDERAL 12-1D-65	1	060S	050W	4301350328	18040	Federal	OW	P	
FEDERAL 13-1D-65	1	060S	050W	4301350329	18042	Federal	OW	P	
FEDERAL 14-1D-65	1	060S	050W	4301350330	18041	Federal	OW	P	
FEDERAL 13-5D-64	5	060S	040W	4301350337	17714	Federal	OW	P	
FEDERAL 14-5D-64	5	060S	040W	4301350338	17715	Federal	OW	P	
FEDERAL 9-1D-65	1	060S	050W	4301350342	18026	Federal	OW	P	
FEDERAL 13-6D-64	6	060S	040W	4301350347	17619	Federal	OW	P	
FEDERAL 11-5D-64	5	060S	040W	4301350348	17690	Federal	OW	P	
FEDERAL 12-5D-64	5	060S	040W	4301350349	17713	Federal	OW	P	
FEDERAL 8-1D-65	1	060S	050W	4301350350	18025	Federal	OW	P	
UTE TRIBAL 3-14D-54	14	050S	040W	4301350389	17904	Indian	OW	P	
UTE TRIBAL 1-34D-55	34	050S	050W	4301350408	17931	Indian	OW	P	
UTE TRIBAL 7-14-54	14	050S	040W	4301350409	17924	Indian	OW	P	
UTE TRIBAL 8-21D-55	21	050S	050W	4301350435	17963	Indian	OW	P	
UTE TRIBAL 8-34D-55	34	050S	050W	4301350436	17952	Indian	OW	P	
UTE TRIBAL 5-16D-54	16	050S	040W	4301350475	17991	Indian	OW	P	
UTE TRIBAL 12-14D-55	14	050S	050W	4301350476	17973	Indian	OW	P	
UTE TRIBAL 8-15D-55	15	050S	050W	4301350477	17974	Indian	OW	P	
UTE TRIBAL 3-14-55	14	050S	050W	4301350478	18002	Indian	OW	P	
UTE TRIBAL 5-14-55	14	050S	050W	4301350479	18021	Indian	OW	P	
UTE TRIBAL 8-10D-54	10	050S	040W	4301350488	18099	Indian	OW	P	
UTE TRIBAL 7-34-55	34	050S	050W	4301350510	17949	Indian	OW	P	
FEDERAL 4-4D-65	4	060S	050W	4301350521	18557	Federal	OW	P	
FEDERAL 6-3D-64	3	060S	040W	4301350522	18073	Federal	OW	P	
FEDERAL 1-1D-64	1	060S	040W	4301350524	18088	Federal	OW	P	
FEDERAL 7-2D-65	2	060S	050W	4301350525	18100	Federal	OW	P	
BERRY TRIBAL 12-34D-54	34	050S	040W	4301350527	17998	Indian	OW	P	
FEDERAL 15-5D-65	5	060S	050W	4301350553	18537	Federal	OW	P	
FEDERAL 11-4D-64	4	060S	040W	4301350565	18043	Federal	OW	P	
FEDERAL 6-6D-65	6	060S	050W	4301350566	18521	Federal	OW	P	
LC TRIBAL 3-15D-56	15	050S	060W	4301350598	18097	Indian	OW	P	
LC TRIBAL 8-16D-56	16	050S	060W	4301350599	18161	Indian	OW	P	
LC FEE 16-16D-56	16	050S	060W	4301350601	18165	Fee	OW	P	
LC TRIBAL 10-16D-56	16	050S	060W	4301350602	18586	Indian	OW	P	
LC TRIBAL 15-22D-56	22	050S	060W	4301350606	18278	Indian	OW	P	
LC TRIBAL 5-23D-56	23	050S	060W	4301350625	18285	Indian	OW	P	
LC TRIBAL 5-14D-56	14	050S	060W	4301350661	18219	Indian	OW	P	
SFW FEE 14-10D-54	10	050S	040W	4301350686	18070	Fee	OW	P	
LC FEE 1-22D-56	22	050S	060W	4301350718	18101	Fee	OW	P	
FEDERAL 8-2D-65	2	060S	050W	4301350719	18614	Federal	OW	P	
FEDERAL 1-2D-64	2	060S	040W	4301350730	18585	Federal	OW	P	
FEDERAL 7-2D-64	2	060S	040W	4301350734	18584	Federal	OW	P	
FEDERAL 10-6D-64	6	060S	040W	4301350735	18162	Federal	OW	P	
FEDERAL 4-3D-64	3	060S	040W	4301350736	18621	Federal	OW	P	
FEDERAL 12-3D-64	3	060S	040W	4301350737	18620	Federal	OW	P	
LC TRIBAL 3-21D-56	21	050S	060W	4301350751	18462	Indian	OW	P	
LC TRIBAL 5-21D-56	21	050S	060W	4301350752	18286	Indian	OW	P	
FEDERAL 2-1D-65	1	060S	050W	4301350759	18172	Federal	OW	P	
FEDERAL 3-1D-65	1	060S	050W	4301350760	18173	Federal	OW	P	

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FEDERAL 5-1D-65	1	060S	050W	4301350761	18174	Federal	OW	P	
FEDERAL 9-2D-65	2	060S	050W	4301350762	18245	Federal	OW	P	
FEDERAL 11-2D-65	2	060S	050W	4301350763	18589	Federal	OW	P	
FEDERAL 15-2D-65	2	060S	050W	4301350764	18590	Federal	OW	P	
LC TRIBAL 14-14D-56	14	050S	060W	4301350776	18287	Indian	OW	P	
LC FEE 2-20D-56	20	050S	060W	4301350777	18622	Fee	OW	P	
LC TRIBAL 12-22D-56	22	050S	060W	4301350780	18341	Indian	OW	P	
FEDERAL 3-4D-65	4	060S	050W	4301350782	18556	Federal	OW	P	
FEDERAL 6-4D-65	4	060S	050W	4301350783	19162	Federal	OW	P	
FEDERAL 12-4D-65	4	060S	050W	4301350784	19171	Federal	OW	P	
LC TRIBAL 14-15D-56	15	050S	060W	4301350834	18362	Indian	OW	P	
UTE TRIBAL 7I-21D-54	21	050S	040W	4301350852	18423	Indian	OW	P	BERRY PILOT EOR 246-02
UTE TRIBAL 8L-21D-54	21	050S	040W	4301350853	18423	Indian	OW	P	BERRY PILOT EOR 246-02
UTE TRIBAL 10S-21D-54	21	050S	040W	4301350854	18423	Indian	OW	P	BERRY PILOT EOR 246-02
UTE TRIBAL 11-11-54	11	050S	040W	4301350861	18775	Indian	OW	P	
LC TRIBAL 2-28D-56	28	050S	060W	4301350866	18592	Indian	OW	P	
LC FEE 8-28D-56	28	050S	060W	4301350867	18342	Fee	OW	P	
LC TRIBAL 6-27D-56	27	050S	060W	4301350868	18480	Indian	OW	P	
LC FEE 15-23D-56	23	050S	060W	4301350870	18410	Fee	OW	P	
LC TRIBAL 15-26-56	26	050S	060W	4301350871	18377	Indian	OW	P	
UTE TRIBAL 16-11-55	11	050S	050W	4301350888	18707	Indian	OW	P	
LC TRIBAL 2-5D-56	5	050S	060W	4301350925	18568	Indian	OW	P	
LC TRIBAL 2-9D-56	9	050S	060W	4301350926	18425	Indian	OW	P	
LC FEE 8-29-45	29	040S	050W	4301350928	18313	Fee	OW	P	
LC FEE 13-29-45	29	040S	050W	4301350929	18426	Fee	OW	P	
LC FEE 9-12D-57	12	050S	070W	4301350963	18541	Fee	OW	P	
LC FEE 1-22-57	22	050S	070W	4301350965	18558	Fee	OW	P	
LC TRIBAL 11-3D-56	3	050S	060W	4301350966	18464	Indian	OW	P	
LC TRIBAL 3-34-45	34	040S	050W	4301350976	18661	Indian	OW	P	
LC TRIBAL 9-10D-56	10	050S	060W	4301350987	18944	Indian	OW	P	
LC TRIBAL 10-9D-56	9	050S	060W	4301350990	18864	Indian	OW	P	
LC FEE 10-31D-45	31	040S	050W	4301350994	18443	Fee	OW	P	
VIEIRA TRIBAL 4-4-54	4	050S	040W	4301350997	18747	Indian	OW	P	
LC TRIBAL 10-21-56	21	050S	060W	4301350999	18439	Indian	OW	P	
FEDERAL 1-5D-64	5	060S	040W	4301351012	18720	Federal	OW	P	
FEDERAL 2-5D-64	5	060S	040W	4301351013	18723	Federal	OW	P	
FEDERAL 7-5D-64	5	060S	040W	4301351014	18722	Federal	OW	P	
FEDERAL 8-5D-64	5	060S	040W	4301351015	18721	Federal	OW	P	
MYRIN TRIBAL 15-10-55	10	050S	050W	4301351024	18771	Indian	OW	P	
LC TRIBAL 15-15D-56	15	050S	060W	4301351030	18440	Indian	OW	P	
LC TRIBAL 9-15D-56	15	050S	060W	4301351031	18441	Indian	OW	P	
LC TRIBAL 6-28-45	28	040S	050W	4301351034	18700	Indian	OW	P	
FEDERAL 1-12D-65	12	060S	050W	4301351055	18739	Federal	OW	P	
FEDERAL 8-12D-65	12	060S	050W	4301351056	18718	Federal	OW	P	
FEDERAL 2-12D-65	12	060S	050W	4301351057	18738	Federal	OW	P	
LC TRIBAL 15-8D-56	8	050S	060W	4301351060	18862	Indian	OW	P	
LC TRIBAL 8-22D-56	22	050S	060W	4301351069	19233	Indian	OW	P	
LC TRIBAL 9-17D-56	17	050S	060W	4301351070	18945	Indian	OW	P	
LC TRIBAL 7-27-45	27	040S	050W	4301351073	18685	Indian	OW	P	
LC TRIBAL 11-24-45	24	040S	050W	4301351076	18745	Indian	OW	P	
FEDERAL 3-12D-65	12	060S	050W	4301351093	18705	Federal	OW	P	
FEDERAL 4-12D-65	12	060S	050W	4301351094	18704	Federal	OW	P	
FEDERAL 5-12D-65	12	060S	050W	4301351095	18702	Federal	OW	P	
FEDERAL 6-12D-65	12	060S	050W	4301351096	18703	Federal	OW	P	
LC TRIBAL 9-8D-56	8	050S	060W	4301351112	18522	Indian	OW	P	
UTE TRIBAL 4-9-54	9	050S	040W	4301351126	19059	Indian	OW	P	
UTE TRIBAL 6-9-54	9	050S	040W	4301351127	19017	Indian	OW	P	
UTE TRIBAL 2-9-54	9	050S	040W	4301351128	18946	Indian	OW	P	
UTE TRIBAL 1-10-54	10	050S	040W	4301351129	18879	Indian	OW	P	
LC TRIBAL 8-30D-56	30	050S	060W	4301351131	18539	Indian	OW	P	
LC TRIBAL 16-30D-56	30	050S	060W	4301351132	18540	Indian	OW	P	
FEDERAL 1-1D-65	1	060S	050W	4301351142	18623	Federal	OW	P	
UTE TRIBAL 8-9-54	9	050S	040W	4301351143	18947	Indian	OW	P	
FEDERAL 15-1D-65	1	060S	050W	4301351175	18654	Federal	OW	P	
FEDERAL 16-1D-65	1	060S	050W	4301351176	18655	Federal	OW	P	
LC TRIBAL 11-29D-56	29	050S	060W	4301351183	18873	Indian	OW	P	

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STATE TRIBAL 8-12-55	12	050S	050W	4301351188	18986	Indian	OW	P	
LC TRIBAL 11-20D-56	20	050S	060W	4301351189	18819	Indian	OW	P	
LC FEE 5-20D-56	20	050S	060W	4301351190	18818	Fee	OW	P	
LC FEE 9-19-56	19	050S	060W	4301351192	18596	Fee	OW	P	
LC TRIBAL 9-9D-56	9	050S	060W	4301351198	18595	Indian	OW	P	
FEDERAL 16-6-64	6	060S	040W	4301351217	18792	Federal	OW	P	
FEDERAL 9-6D-64	6	060S	040W	4301351218	18791	Federal	OW	P	
UTE TRIBAL 5-17-55	17	050S	050W	4301351220	18841	Indian	OW	P	
UTE TRIBAL 16-3-54	3	050S	040W	4301351226	18664	Indian	OW	P	
STATE TRIBAL 15-6-54	6	050S	040W	4301351227	18746	Indian	OW	P	
STATE TRIBAL 8-7-54	7	050S	040W	4301351228	18743	Indian	OW	P	
STATE TRIBAL 12-1-55	1	050S	050W	4301351229	18741	Indian	OW	P	
STATE TRIBAL 11-2-55	2	050S	050W	4301351230	18742	Indian	OW	P	
FEDERAL 1-11-65	11	060S	050W	4301351231	18689	Federal	OW	P	
FEDERAL 8-11D-65	11	060S	050W	4301351232	18688	Federal	OW	P	
FEDERAL 2-11D-65	11	060S	050W	4301351233	18690	Federal	OW	P	
STATE TRIBAL 12-3-55	3	050S	050W	4301351236	18744	Indian	OW	P	
UTE TRIBAL 11-4-55	4	050S	050W	4301351237	18663	Indian	OW	P	
UTE TRIBAL 4-9-55	9	050S	050W	4301351238	18796	Indian	OW	P	
UTE TRIBAL 15-5-55	5	050S	050W	4301351239	18740	Indian	OW	P	
UTE FEE 9-9-54	9	050S	040W	4301351259	18642	Fee	OW	P	
LC TRIBAL 4-29-45	29	040S	050W	4301351260	18719	Indian	OW	P	
UTE FEE 14-9D-54	9	050S	040W	4301351271	18684	Fee	OW	P	
UTE FEE 15-9D-54	9	050S	040W	4301351272	18687	Fee	OW	P	
LC FEE 10-28D-56	28	050S	060W	4301351288	18591	Fee	OW	P	
UTE TRIBAL 8-16D-54	16	050S	040W	4301351295	19003	Indian	OW	P	
FEE TRIBAL 4-5-54	5	050S	040W	4301351303	19187	Indian	OW	P	
LC TRIBAL 1-26-56	26	050S	060W	4301351306	18816	Indian	OW	P	
UTE TRIBAL 6-16D-54	16	050S	040W	4301351307	19060	Indian	OW	P	
LC TRIBAL 7-22D-56	22	050S	060W	4301351308	18795	Indian	OW	P	
LC TRIBAL 9-22D-56	22	050S	060W	4301351309	18794	Indian	OW	P	
LC TRIBAL 9-32D-56	32	050S	060W	4301351316	19228	Indian	OW	P	
LC TRIBAL 7-26D-56	26	050S	060W	4301351319	18817	Indian	OW	P	
LC FEE 8-6D-56	6	050S	060W	4301351342	18657	Fee	OW	P	
LC FEE 10-29D-45	29	040S	050W	4301351343	18850	Fee	OW	P	
LC TRIBAL 1-7D-56	7	050S	060W	4301351344	18774	Indian	OW	P	
LC TRIBAL 9-7D-56	7	050S	060W	4301351346	18773	Indian	OW	P	
LC TRIBAL 11-10D-56	10	050S	060W	4301351369	18840	Indian	OW	P	
LC FEE 1-31D-45	31	040S	050W	4301351371	18686	Fee	OW	P	
LC TRIBAL 14-21D-56	21	050S	060W	4301351384	18877	Indian	OW	P	
LC TRIBAL 4-22D-56	22	050S	060W	4301351385	18878	Indian	OW	P	
LC TRIBAL 8-21D-56	21	050S	060W	4301351392	18874	Indian	OW	P	
UTE TRIBAL 1-17-55	17	050S	050W	4301351393	18848	Indian	OW	P	
LC TRIBAL 4-33D-45	33	040S	050W	4301351401	18853	Indian	OW	P	
LC TRIBAL 16-21D-56	21	050S	060W	4301351407	18875	Indian	OW	P	
UTE TRIBAL 2-10D-54	10	050S	040W	4301351411	19172	Indian	OW	P	
UTE TRIBAL 4-10D-54	10	050S	040W	4301351414	19069	Indian	OW	P	
LC TRIBAL 2-21D-56	16	050S	060W	4301351418	19252	Indian	OW	P	
LC TRIBAL 1-23D-45	23	040S	050W	4301351425	18855	Indian	OW	P	
LC TRIBAL 2-28D-45	28	040S	050W	4301351429	18701	Indian	OW	P	
LC TRIBAL 9-28D-45	28	040S	050W	4301351430	18656	Indian	OW	P	
LC TRIBAL 1-29-56	29	050S	060W	4301351442	18876	Indian	OW	P	
LC FEE 1-1-56	1	050S	060W	4301351458	18829	Fee	OW	P	
LC Tribal 12-32-45	32	040S	050W	4301351465	18772	Indian	OW	P	
UTE TRIBAL 2-5-54	5	050S	040W	4301351520	18880	Indian	OW	P	
LC Tribal 3-32D-45	32	040S	050W	4301351561	18842	Indian	OW	P	
LC TRIBAL 5-15D-56	15	050S	060W	4301351562	19253	Indian	OW	P	
LC FEE 16-36-56	36	050S	060W	4301351611	19096	Fee	OW	P	
LC TRIBAL 15-34-56	34	050S	060W	4301351647	18962	Indian	OW	P	
LC TRIBAL 1-34D-56	34	050S	060W	4301351660	18988	Indian	OW	P	
LC FEE 13-23-56	23	050S	060W	4301351706	18994	Fee	OW	P	
LC FEE 11-23D-56	23	050S	060W	4301351707	18995	Fee	OW	P	
LC TRIBAL 3-33-56	33	050S	060W	4301351711	19242	Indian	OW	P	
LC FEE 11-29D-45	29	040S	050W	4301351743	19188	Fee	OW	P	
LC FEE 4-28D-45	29	040S	050W	4301351745	18849	Fee	OW	P	
CC Fee 7R-28-38	28	030S	080W	4301351852	18863	Fee	OW	P	

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FEDERAL 6-7-64	7	060S	040W	4301351915	19117	Federal	OW	P	
FEDERAL 3-7D-64	7	060S	040W	4301351916	19115	Federal	OW	P	
FEDERAL 4-7D-64	7	060S	040W	4301351917	19110	Federal	OW	P	
FEDERAL 5-7D-64	7	060S	040W	4301351918	19111	Federal	OW	P	
FEDERAL 2-7-64	7	060S	040W	4301351919	19139	Federal	OW	P	
FEDERAL 1-7D-64	7	060S	040W	4301351920	19140	Federal	OW	P	
FEDERAL 12-7D-64	7	060S	040W	4301351924	19025	Federal	OW	P	
FEDERAL 11-7D-64	7	060S	040W	4301351925	19039	Federal	OW	P	
FEDERAL 13-7D-64	7	060S	040W	4301351926	19026	Federal	OW	P	
FEDERAL 14-7D-64	7	060S	040W	4301351927	19040	Federal	OW	P	
FEDERAL 7-7D-64	7	060S	040W	4301351933	19141	Federal	OW	P	
FEDERAL 8-7D-64	7	060S	040W	4301351934	19142	Federal	OW	P	
FEDERAL 9-7D-64	7	060S	040W	4301351935	19143	Federal	OW	P	
FEDERAL 10-7D-64	7	060S	040W	4301351936	19144	Federal	OW	P	
ABBOTT FEE 2-6D-54	6	050S	040W	4301351949	18974	Fee	OW	P	
ABBOTT FEE 8-6D-54	6	050S	040W	4301351950	18964	Fee	OW	P	
ABBOTT FEE 4-6-54	6	050S	040W	4301351952	18965	Fee	OW	P	
Federal 15-12D-65	12	060S	050W	4301351992	19051	Federal	OW	P	
Federal 10-12D-65	12	060S	050W	4301351999	19052	Federal	OW	P	
Federal 9-12D-65	12	060S	050W	4301352000	19053	Federal	OW	P	
Federal 16-12D-65	12	060S	050W	4301352003	19054	Federal	OW	P	
Federal 1-6D-65	6	060S	050W	4301352012	19189	Federal	OW	P	
Federal 3-6D-65	6	060S	050W	4301352014	19190	Federal	OW	P	
Federal 2-6-65	6	060S	050W	4301352017	19191	Federal	OW	P	
Federal 7-6D-65	6	060S	050W	4301352018	19192	Federal	OW	P	
Federal 16-11D-65	11	060S	050W	4301352045	19070	Federal	OW	P	
Federal 15-11D-65	11	060S	050W	4301352046	19076	Federal	OW	P	
Federal 10-11D-65	11	060S	050W	4301352047	19077	Federal	OW	P	
Federal 9-11D-65	11	060S	050W	4301352048	19071	Federal	OW	P	
Federal 11-12D-65	12	060S	050W	4301352049	19121	Federal	OW	P	
Federal 12-12D-65	12	060S	050W	4301352050	19122	Federal	OW	P	
Federal 13-12D-65	12	060S	050W	4301352052	19123	Federal	OW	P	
Federal 14-12D-65	12	060S	050W	4301352053	19124	Federal	OW	P	
LC Tribal 12-28D-45	28	040S	050W	4301352089	19378	Indian	OW	P	
LC Tribal 2-32D-45	32	040S	050W	4301352113	19348	Indian	OW	P	
LC Tribal 16-29D-45	32	040S	050W	4301352114	19349	Indian	OW	P	
Vieira Tribal 3-4D-54	4	050S	040W	4301352145	19210	Indian	OW	P	
Vieira Tribal 5-4D-54	4	050S	040W	4301352146	19193	Indian	OW	P	
Vieira Tribal 6-4D-54	4	050S	040W	4301352147	19216	Indian	OW	P	
Lamplugh Tribal 6-3D-54	3	050S	040W	4301352148	19289	Indian	OW	P	
Lamplugh Tribal 5-3D-54	3	050S	040W	4301352149	19290	Indian	GW	P	
Lamplugh Tribal 4-3D-54	3	050S	040W	4301352150	19291	Indian	OW	P	
Lamplugh Tribal 3-3D-54	3	050S	040W	4301352151	19292	Indian	OW	P	
UTE Tribal 6-35D-54	35	050S	040W	4301352158	19254	Indian	GW	P	
UTE Tribal 4-35D-54	35	050S	040W	4301352159	19255	Indian	GW	P	
Heiner Tribal 3-11D-54	11	050S	040W	4301352165	19194	Indian	OW	P	
Heiner Tribal 4-11-54	11	050S	040W	4301352166	19195	Indian	OW	P	
Heiner Tribal 5-11D-54	11	050S	040W	4301352167	19196	Indian	OW	P	
Conolly Tribal 1-11D-54	11	050S	040W	4301352168	19270	Indian	OW	P	
Conolly Tribal 2-11D-54	11	050S	040W	4301352169	19197	Indian	OW	P	
Conolly Tribal 7-11D-54	11	050S	040W	4301352170	19280	Indian	OW	P	
Conolly Tribal 8-11D-54	11	050S	040W	4301352171	19281	Indian	OW	P	
Casper Tribal 1-5D-54	5	050S	040W	4301352180	19198	Indian	OW	P	
Fee Tribal 6-5D-54	5	050S	040W	4301352181	19199	Indian	OW	P	
Fee Tribal 5-5D-54	5	050S	040W	4301352182	19200	Indian	OW	P	
Fee Tribal 3-5D-54	5	050S	040W	4301352184	19201	Indian	OW	P	
Casper Tribal 7-5D-54	5	050S	040W	4301352185	19202	Indian	OW	P	
UTE Tribal 10-35D-54	35	050S	040W	4301352198	19320	Indian	OW	P	
UTE Tribal 14-35D-54	35	050S	040W	4301352199	19311	Indian	GW	P	
UTE Tribal 12-35D-54	35	050S	040W	4301352200	19312	Indian	OW	P	
UTE Tribal 16-35D-54	35	050S	040W	4301352230	19321	Indian	OW	P	
Evans Tribal 1-3-54	3	050S	040W	4301352234	19264	Indian	OW	P	
Evans Tribal 2-3D-54	3	050S	040W	4301352235	19265	Indian	OW	P	
Evans Tribal 7-3D-54	3	050S	040W	4301352236	19256	Indian	OW	P	
Evans Tribal 8-3D-54	3	050S	040W	4301352237	19257	Indian	OW	P	
Ute Tribal 9-3D-54	3	050S	040W	4301352249	19236	Indian	OW	P	

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Ute Tribal 15-3D-54	3	050S	040W	4301352250	19237	Indian	OW	P	
Ute Tribal 10-3-54	3	050S	040W	4301352251	19238	Indian	OW	P	
Ute Tribal 14-3D-54	3	050S	040W	4301352298	19258	Indian	OW	P	
Ute Tribal 12-3D-54	3	050S	040W	4301352299	19259	Indian	OW	P	
Ute Tribal 11-3D-54	3	050S	040W	4301352300	19260	Indian	OW	P	
Ute Tribal 16-4D-54	4	050S	040W	4301352302	19350	Indian	OW	P	
Ute Tribal 15-4D-54	4	050S	040W	4301352303	19293	Indian	OW	P	
Ute Tribal 9-4D-54	4	050S	040W	4301352305	19304	Indian	OW	P	
Ute Tribal 10-4D-54	4	050S	040W	4301352307	19294	Indian	OW	P	
UTE Tribal 2-35D-54	35	050S	040W	4301352319	19322	Indian	OW	P	
UTE Tribal 8-35D-54	35	050S	040W	4301352320	19323	Indian	OW	P	
Abbott Fee 5-6D-54	6	050S	040W	4301352326	19351	Fee	OW	P	
Ute Tribal 6-11D-54	11	050S	040W	4301352330	19243	Indian	OW	P	
Ute Tribal 12-11D-54	11	050S	040W	4301352331	19244	Indian	OW	P	
Ute Tribal 14-11D-54	11	050S	040W	4301352332	19245	Indian	OW	P	
Ute Tribal 11-4D-54	4	050S	040W	4301352343	19305	Indian	OW	P	
Ute Tribal 12-4D-54	4	050S	040W	4301352344	19352	Indian	OW	P	
Ute Tribal 13-4D-54	4	050S	040W	4301352345	19353	Indian	OW	P	
Ute Tribal 14-4D-54	4	050S	040W	4301352346	19306	Indian	OW	P	
Ute Tribal 16-5D-54	5	050S	040W	4301352545	99999	Indian	OW	P	
Ute Tribal 15-5D-54	5	050S	040W	4301352546	99999	Indian	OW	P	
Ute Tribal 10-5D-54	5	050S	040W	4301352547	99999	Indian	OW	P	
Ute Tribal 8-5D-54	5	050S	040W	4301352548	99999	Indian	OW	P	
SCOFIELD-THORPE 26-31	26	120S	070E	4300730987	15218	Fee	D	PA	
SCOFIELD-THORPE 26-43	26	120S	070E	4300730990	14922	Fee	D	PA	
SCOFIELD CHRISTIANSEN 8-23	8	120S	070E	4300730999	15172	Fee	D	PA	
CC FEE 7-28-38	28	030S	080W	4301350887	18288	Fee	D	PA	
CC FEE 8-9-37	9	030S	070W	4301350896	18660	Fee	D	PA	
ST LOST CREEK 32-44	32	110S	070E	4304930023	14450	State	D	PA	
SCOFIELD THORPE 22-41X RIG SKID	22	120S	070E	4300730890	13719	Fee	GW	S	
SCOFIELD-THORPE 35-13	35	120S	070E	4300730991	14846	Fee	GW	S	
SCOFIELD-THORPE 23-31	23	120S	070E	4300731001	14923	Fee	GW	S	
NUTTERS RIDGE FED 5-1	5	060S	040W	4301330403	8231	Federal	OW	S	
WIRE FENCE CYN FED 15-1	15	060S	050W	4301330404	8233	Federal	GW	S	
R FORK ANTELOPE CYN FED 25-1	25	060S	050W	4301330406	8234	Federal	OW	S	
WOLF HOLLOW 22-1	22	060S	050W	4301330425	10370	Federal	GW	S	
ANTELOPE RIDGE 24-1	24	060S	050W	4301330426	10371	Federal	OW	S	
B C UTE TRIBAL 8-21	21	050S	040W	4301330829	8414	Indian	OW	S	BERRY PILOT EOR 246-02
Z and T UTE TRIBAL 10-21	21	050S	040W	4301331283	11133	Indian	GW	S	BERRY PILOT EOR 246-02
Z and T UTE TRIBAL 12-22	22	050S	040W	4301331311	11421	Indian	OW	S	
UTE TRIBAL 15-17	17	050S	040W	4301331649	11956	Indian	OW	S	
UTE TRIBAL 7-30	30	050S	040W	4301332167	12945	Indian	OW	S	
UTE TRIBAL 8-35-55	35	050S	050W	4301332267	13571	Indian	OW	S	
UTE TRIBAL 10-16-55	16	050S	050W	4301332345	13693	Indian	OW	S	
FOY TRIBAL 11-34-55	34	050S	050W	4301332351	13648	Indian	OW	S	
UTE TRIBAL 13-30-54	30	050S	040W	4301332409	13968	Indian	OW	S	
UTE TRIBAL 3-33-54	33	050S	040W	4301332412	13938	Indian	OW	S	
UTE TRIBAL 1-20-55	20	050S	050W	4301332414	14548	Indian	OW	S	
UTE TRIBAL 11-30-54	30	050S	040W	4301332512	13982	Indian	OW	S	
UTE TRIBAL 2-24-54	24	050S	040W	4301332569	14314	Indian	OW	S	
UTE TRIBAL 10-14-55	14	050S	050W	4301332601	14331	Indian	OW	S	
MOON TRIBAL 3-27-54	27	050S	040W	4301332613	14416	Indian	OW	S	
UTE TRIBAL 7-21-54	21	050S	040W	4301332623	14383	Indian	OW	S	BERRY PILOT EOR 246-02
UTE TRIBAL 16-24-55	24	050S	050W	4301332672	14384	Indian	GW	S	
UTE TRIBAL 7-35-54	35	050S	040W	4301332774	15019	Indian	OW	S	
UTE TRIBAL 16-25-54	25	050S	040W	4301332779	15078	Indian	OW	S	
MOON TRIBAL 13-27-54	27	050S	040W	4301332801	15057	Indian	OW	S	
UTE TRIBAL 15-15-55	15	050S	050W	4301332855	15114	Indian	OW	S	
UTE TRIBAL 5-36-55	36	050S	050W	4301332930	15301	Indian	OW	S	
UTE TRIBAL 8-24-54	24	050S	040W	4301332933	15402	Indian	OW	S	
UTE TRIBAL 12-15-55	15	050S	050W	4301332981	15348	Indian	OW	S	
UTE TRIBAL 9-21-54	21	050S	040W	4301333040	15360	Indian	OW	S	BERRY PILOT EOR 246-02
UTE TRIBAL 15-21-54	21	050S	040W	4301333114	15441	Indian	OW	S	BERRY PILOT EOR 246-02
UTE TRIBAL 10-16-54	16	050S	040W	4301333129	15454	Indian	OW	S	
TAYLOR FEE 7-14-56	14	050S	060W	4301333140	15601	Fee	OW	S	
UTE TRIBAL 9S-25-55	25	050S	050W	4301333245	15962	Indian	OW	S	

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UTE TRIBAL 9-5-54	5	050S	040W	4301351111	18909	Indian	OW	S	
ABBOTT FEE 6-6-54	6	050S	040W	4301351948	18963	Fee	OW	S	